

Should have experience in design, manufacture, or repair of cameras, or in manufacture of optical instruments.

Training in mechanical, electrical, or chemical engineering, or equivalent practical experience essential.

#### SOURCE JOBS

Camera Technician	Microfilm Equipment
Photographic Equipment Designer	Repairman
	Photographic Equipment Sales Engineer

#### CONSTRUCTION INSPECTION ENGINEER (7100)

Inspects construction activities and engineering projects to insure compliance with contract requirements. Examines plans, specifications, and contracts, and investigates changes and discrepancies; prepares reports of findings and recommendations.

Must be thoroughly familiar with construction engineering principles, and methods, and have knowledge of contract rules and practices.

Experience in engineering and construction activities essential.

College degree in civil engineering essential.

#### SOURCE JOBS

Civil Engineer	Construction Engineer
Highway Engineer	

#### CONSTRUCTION ESTIMATING ENGINEER (7105)

Prepares or supervises preparation of estimates for construction contracts. Reviews contracts, plans, specifications, and drawings; estimates type and amount of materials, equipment required, cost of various phases of construction, and time needed to complete project; examines claims resulting from construction contracts; checks estimates of contractor; compiles completion reports.

Must have working knowledge of functions, capacities, and productive rates of various types of construction equipment and skilled and unskilled labor. Should have thorough understanding of contracts, specifications, and blueprints.

Civilian experience in construction engineering or surveying essential.

Should have college training in civil engineering or equivalent practical experience.

#### SOURCE JOBS

Construction Engineer	Office Engineer
Civil Engineer	

#### CONSTRUCTION ENGINEER (7110)

Directs and supervises design and construction of light and heavy buildings at Army camps, posts, depots, and similar installations. Prepares specifications for and supervises construction of buildings such as barracks, recreation halls, warehouses, plants and water-front facilities; inspects materials and workmanship of contractors and employees; insures compliance with construction specifications; maintains records and prepares reports pertaining to activities.

Should be thoroughly familiar with architecture and construction of various kinds of buildings.

Military experience desirable.

Civilian experience in construction engineering involving the development of projects and preparation of engineering plans essential.

Must have college training in civil engineering or equivalent practical experience.

#### SOURCE JOBS

Building Contractor	Architectural Engineer
Construction Superintendent	Civil Engineer

#### LANDSCAPE ARCHITECT (7115)

Prepares plans for converting a definite area of land into a unified ornamental development. Draws rough sketches and finished scale drawings locating roads, footpaths, walks, recreation areas, and buildings; inspects sites to study conditions of drainage, top soil, trees, rock formation, existing and proposed buildings, and other factors; fits plans to contour of land and to existing architecture; specifies type and location of trees, shrubs, flowers, and structures; prepares contracts, specifications, and estimates, and assists in the execution of plans and purchase of material; consults with and advises landscape engineers, landscape contractors, landscapers, and landscape gardeners as to workmanship, methods, and material. May assist in camouflaging prominent landscape features when tactical situation warrants such action. May plan and execute local soil erosion control projects.

Civilian experience as landscape architect such as that acquired in National Park Service or United States Forest Service essential.

College training with specialization in landscape architecture very desirable.

### SOURCE JOBS

Landscape Engineer	Landscape
Landscape Contractor	Landscape Gardener

### UTILITIES MAINTENANCE OFFICER

(7120)

Directs and supervises maintenance and repair of utilities at Army post, camp, station, or military installation. Supervises work of carpenters, painters, plumbers, electricians, and laborers; maintains lighting and power systems, water and sewage plants; refrigeration and gas units and heating plant; supervises repair of tools and machinery needed for construction and maintenance operations; keeps records of maintenance supplies and equipment and prepares periodic reports of activities. May be responsible for grounds and road maintenance, and for maintaining buildings in repair.

Must have knowledge of steam generating plants, water treatment, sewage disposal, and electrical systems. Should be thoroughly familiar with interpretation of blueprints.

Military experience desirable. Should be familiar with Army organization and administration.

Civil administrative experience in civil, mechanical, industrial or electrical engineering, utilities maintenance, or construction work essential.

Should have college training in appropriate fields of engineering or equivalent practical experience.

### SOURCE JOBS

Civil Engineer	Electrical Engineer
Industrial Engineer	Maintenance Mechanic
Construction Superintendent	

### POST ENGINEER (7130)

Directs and supervises the construction, maintenance, and repair of utilities, buildings, roads, bridges, water supply, sewage disposal, heating, and ventilation facilities at a post, camp, station, depot, or other military installation. Serves as adviser to the commanding officer on matters pertaining to general post maintenance; makes plans, specifications, and cost estimates of labor and materials for construction and repairs; supervises the requisitions and storage of maintenance supplies and equipment; maintains adequate records and accounts of construction and repair activities.

Must possess administrative ability to organize, direct, and coordinate engineering projects, and to supervise clerical and reporting activities. Must have comprehensive knowledge of engineering practices, such as the construction and maintenance of buildings, roads, water and sewage systems, and lighting and heating facilities.

Military experience desirable.

Civilian experience in construction engineering or management of utilities essential.

College training in civil engineering and architecture desirable.

### SOURCE JOBS

City Manager	Civil Engineer
City Engineer	Building Contractor
Construction Engineer	

### HIGHWAY ENGINEER (7140)

Plans, designs, and supervises the construction of streets, roads, highways, and bridges. Makes surveys to determine location of roads and bridges; prepares plans and specifications for adequacy of design and construction; makes field inspections to determine effectiveness of planning and adequacy of materials and equipment available for construction; allocates available road construction equipment; supervises field construction and makes periodic progress reports to unit engineer; makes studies of highway traffic facilities and recommends traffic routings; maintains liaison with engineer supply officers regarding road and bridge materials.

Must be skilled in design and construction of highway systems and bridges and have thorough knowledge of civil engineering practices. Should be familiar with principles of traffic routing.

Military experience desirable.

Experience in the design of highway systems and bridges essential.

Must have college training in civil engineering or equivalent practical experience.

### SOURCE JOBS

Civil Engineer	Highway Foreman
Planning Engineer	Highway Engineer
Bridge Construction Engineer	Road Construction Inspector

### MARINE MAINTENANCE AND REPAIR ENGINEER (7200)

Plans and supervises the maintenance, repair, and conversion of mechanical and electrical machinery

and equipment of Army transport vessels and auxiliary craft. Inspects boilers, engines, turbines, pumps, fans, and other electrical or mechanical equipment, and analyzes faulty operations; prepares specifications and designs for conversion or repair of equipment; reviews repair work of outside contractors for quality of materials, workmanship, and conformance with requirements; prepares reports with recommendations for improvement in maintenance procedures; coordinates work of marine engineers and skilled mechanics working on specialized projects.

Must have knowledge of marine mechanical engineering practices, and design of marine power plants, ventilating machinery, boilers, and mechanical equipment.

Marine engineering experience essential.

Should have college training in marine or mechanical engineering.

#### SOURCE JOBS

Marine Engineer                      Electrical Engineer  
 Mechanical Engineer

#### MARINE DESIGN ENGINEER (7201)

Prepares or supervises preparation of preliminary designs, finished working drawings, and specifications for repair of vessels and other marine equipment, or plans engineering operations necessary for the conversion of vessels into Army transports. Makes inspections of vessels in connection with proper arming and degaussing operations; coordinates the work of employees engaged in technical or clerical activities, supervises the maintenance of files and records of engineering information, and prepares special and periodic reports relative to operations; consults with officers or technicians in matters where a specialized knowledge of marine design is required.

Must have technical knowledge of structural marine design, and knowledge of the maintenance, repair, arming, and degaussing of vessels; must be able to formulate drafting room procedures and direct the work of a large number of subordinates.

Must have responsible administrative and technical experience in structural marine design.

Should be college graduate with specialization in marine engineering or equivalent in practical experience.

#### SOURCE JOBS

Marine Architect                      Marine Engineer

#### PORT MARINE ENGINEER (7210)

Directs or supervises maintenance and repair of vessels and marine equipment at a port. Inspects vessels to determine extent of repairs or renovations to hulls, superstructures, power plant, and equipment and directs preparation of working drawings and specifications; inspects marine, mechanical, electrical, and ventilating machinery and equipment, and recommends appropriate repairs; coordinates work and inspection procedures for speed and accuracy of repairs; maintains files and records of activities and prepares reports. May consult with port officers on repair problems requiring specialized knowledge.

Must have broad knowledge of marine design, repairshop practices, and drydock operations. Must be able to formulate and establish operational procedures. Administrative and technical experience in construction and maintenance of vessels and marine equipment essential.

Should be college graduate with specialization in civil, mechanical, or marine engineering, or have equivalent practical experience.

#### SOURCE JOBS

Marine Engineer                      Marine Inspector  
 Naval Architect                      Ship Repair and Main-  
 Drydock Superintendent            tenance Superintendent  
 Ship Yard Superin-  
 tendent

#### SHIP MAINTENANCE AND REPAIR OFFICER (7211)

Plans and supervises the maintenance and repair of vessels, other than mechanical and electrical equipment. Inspects vessels to determine extent and nature of repairs to hulls and superstructure and prepares working drawings and specifications; inspects repair operations to determine quality of materials, workmanship, and conformance with requirements; coordinates shop and inspection procedures to insure serviceable condition of vessels and equipment; arranges for docking of vessels for underwater repairs; maintains records and files of operations performed by outside contractors or Army maintenance shops; requisitions supplies for repairs; directs the conversion of cargo ships to troop transports.

Must have thorough knowledge of marine design and shop practices. Must be familiar with the maintenance, repair, and conversion of vessels, miscel-

laneous craft, and marine equipment. Must have ability to supervise work of skilled carpenters, mechanics, and other marine repairmen.

Civilian experience in the building, maintenance, and repair of ships essential.

College training in marine architecture desirable.

### SOURCE JOBS

Marine Architect            Marine Engineer  
Shipbuilding Foreman    Shipyard Superintendent

### MARINE INSPECTOR (7212)

Investigates and determines nature and extent of repairs necessary to maintain vessels and marine equipment in efficient operation. Determines extent, difficulty, and importance of repairs, and schedules work; requisitions and arranges for deliveries of materials; inspects quality of materials and workmanship and conformance with specifications; supervises maintenance of files and records; prepares reports of findings and operations.

Must have knowledge of marine design and equipment, ship repairs, and drydock operations.

Experience in the repair and inspection of vessels of various sizes essential.

College training in marine engineering or architecture desirable.

### SOURCE JOBS

Marine Engineer            Marine Architect

### AMPHIBIAN ENGINEER BASE SHOP COMMANDER (7214)

Commands an amphibian engineer base shop composed of power plant repair, hull repair, salvage and dockage, and depot units. Directs maintenance and repair of power plants, amphibian boats, and equipment such as maintenance and repair of electric and Diesel engines, radios, and wood and steel hulls; directs construction, maintenance, and repair of docking facilities; directs operations involving salvage of amphibian boats and equipment; directs depot facilities and storage and issuance of amphibian engineer supplies and equipment; conducts periodic inspections of units and coordinates work of organization.

Must have thorough knowledge of power plant and amphibian boat maintenance and repair. Must be familiar with dock construction and repair and be able to direct and coordinate work of ship carpenters, riggers, salvage masters, structural steel work-

ers, pump operators, motorboat operators, electric and Diesel engine mechanics, radio repairmen, blacksmiths, caulkers, machinists, stock and supply clerks, and storekeepers.

Military experience essential, should have completed engineer officer courses with specialized training in amphibian boat maintenance and repair.

Supervisory experience in building, repair, and salvage of small boats and marine equipment desirable.

### SOURCE JOBS

Boat Builder                    Marine Salvage Master  
Drydock Superintendent

### POWER PLANT AND RADIO REPAIR OFFICER (7215)

Directs and supervises the maintenance and major repair of marine motors, propellers, and radio equipment. Inspects equipment, studies and analyzes difficulties, and determines repair work needed; instructs personnel in the technical phases of the work and makes assignments; maintains an adequate supply of spare parts, fuel, and other items; is responsible for salvage, fire prevention, and safety precautions; supervises administration, training, and supply of unit.

Must have thorough knowledge of marine gasoline and Diesel motor maintenance, propellers, and radio repair.

Military experience with some knowledge of Army organization and administration desirable.

Experience in machine-shop operation and practice essential.

### SOURCE JOBS

Diesel Mechanic            Machine Shop Foreman  
Automotive Mechanic    Motor Boat Mechanic

### HULL REPAIR AND SALVAGE OFFICER (7216)

Directs and supervises the maintenance, repair, and salvage of hulls of small craft. Makes preliminary inspections of boats to ascertain the extent of repairs or renovations required and directs the preparation of working drawings and specifications; makes frequent inspections during repair operations to determine quality of materials, workmanship, and conformance with requirements; coordinates shop and inspection procedures; arranges for docking of vessels for underwater repair; su-

pervises reclamation of hulls; supervises the maintenance of records; requisitions and procures supplies and materials; supervises administration, training, and supply of unit.

Must have knowledge of shop practices and marine design of small boats.

Military experience desirable.

Experience in a supervisory or executive capacity concerned with the building, maintenance, and repair of small craft essential.

#### SOURCE JOBS

Drydock Superintendent	Yacht Builder
Shipfitter Foreman	Motor Boat Builder

#### SALVAGE AND DOCKAGE OFFICER (7217)

Supervises operations of a salvage unit in transporting damaged small boats and equipment to base repair shop. Investigates and determines whether boats can be salvaged; supervises use of diving equipment and operation of marine equipment for removal of vessels from water to drydock; maintains navigation and piloting charts of open waters in which operations take place; makes periodic inspections of equipment, rigging, and materials and enforces safety regulations; trains unit in use of diving and marine equipment and is responsible for its administration and supply.

Must have working knowledge of navigation and piloting, and be familiar with operation of marine equipment such as tugs, tank lighters, barges, cranes, diving and grappling equipment, floating docks, and air compressors.

Military experience desirable.

Should have civilian experience in marine salvage, barge towing, shoring, and drydock construction.

#### SOURCE JOBS

Marine Salvage Supervisor	Drydock Superintendent Tugboat Master
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#### BOAT SALVAGE OFFICER (7218)

Supervises operations of salvage unit in salvaging and moving disabled boats to repair docks. Investigates and decides whether boats are worth salvaging or can be salvaged; supervises operation of tugs, cranes, lighters, and diving equipment, and is responsible for moving boats to repair base; trains crews in operations and safety precautions.

Must have thorough working knowledge of sea-

going tugs, barge and crane operation, heavy salvage equipment and machinery, diving operations, navigation, and piloting.

Military experience desirable.

Civilian experience in salvage operations essential.

#### SOURCE JOBS

Marine Salvage Engineer	Tugboat Master
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#### DOCKAGE OFFICER (7219)

Supervises removal of boats from water for inspection, cleaning, and repair operations. Instructs personnel in operation and maintenance of heavy salvage equipment, such as cranes, barges, floating drydock, and air compressors; supervises drydock operations and maintenance; enforces safety regulations.

Must have thorough knowledge of rigging, dock operations, and marine equipment operation and maintenance.

Military training desirable.

Civilian experience in drydock operations essential.

#### SOURCE JOBS

Drydock Foreman	Dockman
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#### MARINE ENGINE REPAIR OFFICER (7221)

Supervises installation, maintenance, and repair of marine engines. Inspects equipment and motors and determines repairs necessary for reconditioning; supervises installation and overhauling of marine Diesel and gasoline engines; inspects work done for workmanship and conformance with instructions; prepares reports of operations and makes recommendations for improvement in methods and techniques. May instruct classes in repair of Diesel and gasoline marine engines.

Should have thorough understanding of marine engine construction and operation and be familiar with gearing and drive functions.

Military experience desirable. Should have completed marine engine maintenance course.

Civilian experience in maintenance and repair of marine engines very desirable.

#### SOURCE JOBS

Marine Engine Mechanic	Diesel Mechanic
Automotive Mechanic	

## DIESEL ENGINE REPAIR OFFICER (7222)

Supervises installation, maintenance, and repair of Diesel engines, except marine and locomotive Diesel engines. Inspects equipment and motors, determines malfunctioning of operation, and recommends repairs or servicing necessary; inspects work done by outside contractors for quality of materials and workmanship and for conformance with requirements and specifications; installs new motors and parts; prepares reports of operations and makes recommendations for improvement in methods and techniques. May instruct classes in repair of Diesel engines.

Should have thorough understanding of Diesel engine theory and operation.

Military experience desirable. Should have completed Diesel engineering school course.

Civilian experience in maintenance and repair of Diesel motors very desirable.

### SOURCE JOBS

Automotive Mechanic                  Diesel Mechanic  
Marine Engine Mechanic

## PORT AND DOCK ENGINEER (7240)

Supervises design, construction, and repair of piers and heavy marine structures in connection with the construction or rehabilitation of port facilities. Supervises design and lay-out of marine structures, piers, warehouses, docks, and wharves; prepares specifications and procures materials and equipment; directs port engineering work and inspects completed assignments; supervises preparation of correspondence and reports concerning operations of organization.

Must have extensive knowledge of design and construction of docks, piers, bulkheads, and marine warehouses, and of submarine work and dredging. Must possess administrative ability to coordinate marine construction projects.

Civilian experience in designing and constructing marine structures essential.

Should be college graduate with specialization in civil or marine engineering or equivalent practical experience.

### SOURCE JOBS

Civil Engineer                  Building Contractor  
Pier Superintendent

## SUBMARINE DIVER FOREMAN (7242)

Directs operations of submarine divers in the con-

struction or rehabilitation of seaport marine structures. Supervises diving and underwater operations, including pressure chamber work, in connection with the repair of piers, docks, marine warehouses, and other water front loading facilities; is responsible for the maintenance and repair of diving equipment; requisitions and procures supplies; maintains records and prepares progress reports.

Must be qualified submarine diver and be skilled in underwater repair construction and maintenance techniques, including submarine welding and pressure chamber work. Must possess considerable supervisory ability to direct diving operations and coordinate the work of a crew of divers.

Military experience desirable.

Civilian experience in diving and in supervising submarine divers essential.

### SOURCE JOBS

Submarine Diver                  Submarine Diver, Foreman

## CHEMICAL ENGINEER (7300)

Plans and develops plant processes for the manufacture of chemical compounds for use in chemical warfare and performs experimental research. Designs equipment to fill chemical munitions with toxic gases; supervises operation and maintenance of manufacturing plans in the production of powders and explosives; supervises packing and shipping operations; maintains records and prepares reports on plant operations.

Must have knowledge of chemical and engineering principles applicable to assignment.

Military experience desirable.

Civilian experience in the development and production of chemical products desirable.

College training in chemical engineering essential.

### SOURCE JOBS

Chemical Engineer                  Industrial Chemist

## AMMUNITION RENOVATING OFFICER (7303)

Directs the inspection, repair, and renovation of unserviceable ammunition. Supervises removal of explosive charges from various types of ammunition and arranges for its disposal; establishes the types and extent of machine operations to make various shell cases serviceable for charges; determines extent of renovations; maintains liaison with units recovering damaged and field ammunition to

arrange transportation of ammunition to points of renovation; returns renovated products and components to proper organizations. May direct the renovation or disposal of various types of ammunition rejected by a field unit.

Must have thorough knowledge of ammunition production including renovation of artillery ammunition cases, machine-shop operations, placing of charges within the projectile and cases, and safety factors. Must be familiar with all phases of ammunition, such as fuzes, projectiles, and projectile cases. Should be familiar with types of enemy ammunition.

Military experience including completion of a course in ammunition essential.

Experience in ordnance or ammunition production plants essential.

College training in mechanical or chemical engineering desirable.

#### SOURCE JOBS

Mechanical Engineer

Chemical Engineer

#### CHEMICAL RESEARCH ENGINEER (7310)

Conducts chemical and physical tests of friendly and enemy chemical equipment and chemical agents. Supervises analysis of chemical composition of compounds and mixtures; conducts field investigations for the identification and neutralization of chemical agents and weapons employed by the enemy; studies technical problems in connection with chemical operations, such as examination and testing of gas masks, protective clothing, and other equipment, and development of new decontamination methods; prepares reports on findings. May recommend methods of purifying water with chemical agents.

Must have thorough knowledge of chemical analysis.

Military training essential.

Civilian experience in the field of chemistry essential.

College education with a major in chemistry, or chemical engineering, or equivalent training of experience essential.

#### SOURCE JOBS

Chemical Engineer  
Industrial Chemist

Analytical Chemist  
Research Chemist

#### PHYSICIST (7312)

Conducts or supervises research and testing ac-

tivities in such phases of physical phenomena as mechanics, heat, and liquid and pneumatic pressure. Tests strengths and physical properties of materials used and applies results of experiments to solution of problems; cooperates closely with chemical analysts in same service; reports findings to commanding officer.

Must be thoroughly familiar with all phases of practical physics and mechanics.

Military experience essential.

Laboratory or practical experience in physics or mechanics essential.

Should be college graduate with specialization in physics or mechanics, or have equivalent experience.

#### SOURCE JOBS

Physicist

Mechanical Engineer

#### BARRAGE BALLOON GAS SERVICE OFFICER (7313)

Advise barrage balloon commander and staff on matters pertaining to gas and supervises procurement, preparation, and distribution of gas used to inflate balloons. Establishes, maintains, and operates a hydrogen generating plant, or a helium purification plant, or both as the occasion may demand; controls distribution of gas to balloons in unit; supervises maintenance of materials and supplies; maintains and stores gas cylinders; makes aerostatic calculations and determines proper volume of gas needed for initial inflation of balloons; supervises and coordinates training of gas personnel.

Must have thorough knowledge of methods of conducting various tests of gas for hydrogen purity. Must be able to supervise gas workers in reading, inspecting, and adjusting manometers, inspecting and adjusting gas and air valves, and handling hydrogen.

Military experience essential with specialized knowledge of gas, gas producing and compressing apparatus, and graduation from coast artillery officer school.

Civilian experience with gas or gas producing and compressing apparatus desirable.

College education in chemistry or physics desirable.

#### CHEMICAL OFFICER (7314)

Supervises chemical warfare activities and advises commander and staff on chemical matters, including use of chemicals by various arms. Prepares

plans for use of chemical troops and recommends allotments to subordinate units; supervises and inspects chemical training; supervises protective measures such as gasproofing of inclosures and decontamination of gassed areas, equipment, and vehicles; examines captured chemical equipment and evaluates information concerning means and methods of utilization of chemicals by enemy and friendly troops; determines requirements and procures, inspects, and distributes chemical equipment and supplies for all units; directs operation of chemical storage, maintenance, and repair facilities.

Must have thorough knowledge of chemical warfare tactics, equipment, and supplies, and be familiar with weather observation and forecasting in connection with chemical warfare operations.

Military experience in chemical warfare operations, including graduation from chemical warfare officer school essential.

Civilian administrative experience desirable.

Should have college education with specialization in chemistry or chemical engineering, or equivalent practical experience.

#### SOURCE JOBS

Chemical Plant Manager      Chemical Engineer  
Chemist

#### TOXICOLOGIST (7316)

Examines water, chemical, and drug samples for toxicity and physiological action, and supervises enlisted and civilian technicians in conduct of similar examinations. Instructs officers and enlisted students in toxicological and biochemical laboratory procedures; records effects and composition of samples tested, identifying samples through interpretation of effect or reaction; prepares reports of activities and findings.

Must have biochemical laboratory experience.

Must be graduate of an accredited college or university with specialized training in biochemistry, toxicology, and related subjects.

#### SOURCE JOBS

Toxicologist      Biochemist

#### METALLURGIST (7317)

Analyzes ores and extracted metals to determine their properties. Advises concerning industrial processing, treating, and alloying of ores or metals by smelting, amalgamation, electrolytic refining, rolling,

and heat treating; investigates melting of metals, their suitability for use, and resistance to corrosion; studies mineral constituents and association of ore for metal recovery; compiles data in report form. May conduct research projects in field of metallurgy. May procure metals, compute their value, and determine their use.

Civilian experience in metallurgy very desirable.

College training in metallurgy essential.

#### SOURCE JOBS

Metallurgical Engineer      Hardness Inspector  
Mining Engineer      Hardness Tester  
Metallurgical Inspector

#### ORGANIC CHEMIST (7318)

Plans and supervises chemical research to develop or analyze chemical compounds. Works on problems involving a technical knowledge of microchemistry; reviews technical reports; evaluates, edits, and prepares reports; acts as adviser on micro-analytical methods.

Civilian experience in general chemical plants specializing in organic chemistry essential.

College training with specialization in chemistry or chemical engineering essential.

#### SOURCE JOBS

Chemist      Research Chemist  
Organic Chemist      Chemical Engineer

#### MUNITIONS PRODUCTION OFFICER (7320)

Directs and coordinates activities of manufacturing plants engaged in production of munitions. Supervises purchase of supplies, materials, and equipment; establishes operating procedures for production, storage, and shipment of munitions; is responsible for maintenance of production schedules and quality of product; is responsible for administrative and personnel activities; maintains production records and prepares periodic reports.

Must have considerable knowledge of matters pertaining to production of munitions.

Military experience essential. Must be thoroughly familiar with Army organization and procedures.

Should have extensive executive experience in manufacture of munitions.

Should have college training in engineering or business administration, or equivalent practical experience.

## SOURCE JOBS

Chemical Engineer                      Plant Superintendent,  
Industrial Engineer                      munitions

### CHEMICAL MUNITIONS INSPECTOR

(7321)

Inspects chemical warfare supplies and equipment in accordance with requirements of specifications and standards. Surveys manufacturing processes to determine efficiency of operation and quality of materials; reviews plans and specifications; develops methods and apparatus to test and inspect materials; prepares periodic reports; supervises maintenance of records and files; specializes in one of the general departments of chemical warfare such as incendiaries, mustard gas filling, chlorine, 4.2-inch mortar assembly, bomb section loading and filling, clothing renovation, or gas mask manufacture.

Must understand methods of product inspection and be able to interpret plans, formulas, and specifications.

Civilian experience in manufacture of chemicals, munitions, and explosives desirable.

College training in chemistry, chemical engineering, or mechanical engineering desirable.

## SOURCE JOBS

Chemist                                      Inspector, chemicals or  
Chemical Engineer                      munitions  
Mechanical Engineer                      Foreman, chemicals or  
Inspector, machinery                      munitions  
assembly

### GAS MASK INSPECTION OFFICER

(7322)

Supervises the inspection of gas masks in a chemical warfare service manufacturing plant. Develops new methods to improve manufacturing quality of gas masks and gas protective equipment; trains new employees in standard inspection methods; recommends changes in manufacturing procedures and procurement methods to improve standards of quality; inspects all gas masks to insure that they are in serviceable condition; prepares periodic reports.

Must have knowledge of modern inspection methods, and phases of manufacturing of gas masks and gas protective equipment. Must be familiar with care and handling of rubber.

Civilian experience in inspection of manufactured products, especially rubber products, very desirable.

## SOURCE JOBS

Rubber Goods Inspector                      Chemical Engineer

## BALLISTICS OFFICER (7342)

Advises on problems concerning ballistic performance of ammunition such as muzzle fire, pressure, hang-fire, accuracy function and casualty performance of ammunition.

Must have thorough knowledge of instruments and gauges used in checking ammunition. Must have considerable knowledge of weapons and ammunition and their ballistic performance. Must know physical and chemical properties of ammunition and be able to analyze acids, pyro-cotton, smokeless powder, and nitroglycerin.

Must have experience in analytical chemistry and ballistics engineering involving experimental research on propellance, ammunition, and weapons.

Should have college education with special training in chemistry and physics.

## SOURCE JOBS

Explosives Production                      Ballistics Engineer  
Manager                                      Analytical Chemist

### CHEMICAL MUNITIONS DEVELOPMENT OFFICER (7360)

Develops and designs new types of chemical warfare munitions and accessory equipment. Develops and supervises experiments to improve fuzes, gas filling methods, pyrotechnics, mortars, bomb throwers, gas masks, and other chemical weapons and protective equipment; designs jigs, loading and charging tools, and other special equipment for mass production of chemical munitions; reviews performance reports to recommend changes in design of munitions for increased efficiency of operations.

Must have knowledge of construction and design of chemical munitions and methods of research.

Military experience desirable.

Civilian experience in development and designs of mechanical equipment desirable.

College training in mechanical, electrical, or chemical engineering very desirable.

## SOURCE JOBS

Mechanical Engineer                      Electrical Engineer  
Chemical Engineer

### BOILER WATER TREATMENT OFFICER (7380)

Makes chemical tests of water for mineral content and determines the amount of chemicals to be

added to make it suitable for use in a given industry such as railroading or manufacturing. Prescribes periodic chemical tests and treatments for boiler water to prevent accumulation of scale and sludge in boilers, boiler tubes, and pipes; prescribes boiler cleaning methods; directs supervision and maintenance of appropriate laboratory facilities and supplies and compilation of analytical reports.

Must be skilled in chemical analysis of water for industrial use, particularly as applied to boiler systems.

Completion of college courses in inorganic chemistry essential.

#### SOURCE JOBS

Chemical Engineer	Supervisor of Water
Inorganic Chemist	Service, railway
Chemical Laboratory Technician	

#### OIL REFINING ENGINEER (7390)

Supervises the construction, operation, repair, and maintenance of petroleum refineries and facilities. Confers with other engineers in rebuilding and rehabilitation of oil refineries and construction of new stills, cracking towers, and collection tanks; makes chemical, specific gravity, and color tests to determine whether treatment of oil is being carried out properly; provides for collection and refining of byproducts.

Must have knowledge of refinery operations including the preparation and cracking of high test and aviation gasoline.

Supervisory or engineering experience in construction, operation, and maintenance of refineries essential.

Should have college training in chemical engineering.

#### SOURCE JOBS

Petroleum Engineer	Mechanical Engineer
Oil Refinery Maintenance Engineer	Chemical Engineer

#### FUEL RESEARCH ENGINEER (7391)

Supervises chemists and technicians in development of fuels and lubricants for use with automotive and power equipment under extreme temperature conditions. Supervises planning of special research tests; prepares specifications for fuel and lubricants.

Must have G-2 clearance.

Military experience desirable. Should have completed Motor Transport Course at officer candidate school, or have equivalent practical experience.

Research or laboratory testing experience in petroleum industry essential.

College training in chemical or petroleum engineering desirable.

#### SOURCE JOBS

Chemical Engineer	Fuel Research Engineer
Research Chemist	Analytical Chemist
Petroleum Engineer	

#### PRODUCTION MANAGER (7415)

Directs and supervises operations of a Government owned or operated plant or group of plants engaged in processing Army matériel. Supervises civilian and military personnel and is responsible for performance of their duties; supervises receipt, inspection, and storage of incoming materials; regulates flow of "in" materials into the process; coordinates various phases of the production process to meet production schedules; controls standardization of product in accordance with specifications by supervising inspection operations throughout the process; regulates flow of finished product into storage and provides for proper packing, handling, and storage maintenance; supervises order filling, loading, and shipping operations; supervises preparation and maintenance of reports and records on labor, materials, equipment, and production.

Must have good knowledge of manufacturing processes concerned with production of war matériel.

Civilian experience in field of production management for industrial manufacturing plants very desirable.

Should have college training in appropriate field of engineering or equivalent practical experience.

#### SOURCE JOBS

Plant Manager	Industrial Engineer
Mechanical Engineer	Electrical Engineer
Chemical Engineer	

#### PRODUCTION EXPEDITER (7416)

Coordinates and expedites manufacturing activities and processes pertaining to production of military supplies and equipment. Supervises maintenance of production records pertaining to routing

and follow-up of parts and materials; follows progress of manufacturing processes by referring to progress charts and by contacts with production supervisor; determines causes for production lags and makes recommendations for their elimination; coordinates activities with operating and planning units to insure efficient and expeditious movement of materials into and out of the production process. May supervise and instruct production expediting personnel. May arrange for distribution of materials within a plant.

Must have knowledge of production control and supply problems. Should be familiar with methods and principles involved in lay-out of production line.

College training in industrial engineering desirable.

#### SOURCE JOBS

Plant Foreman	Production Control
Production Expediter	Clerk

#### INDUSTRIAL ENGINEER (7421)

Directs or supervises planning and production methods in an industrial organization. Consults with and advises engineers in design of new equipment, in plant lay-outs, and in improving and revising present equipment and lay-outs; directs preparation of specifications for new machinery; supervises performance tests for new machinery to insure compliance with specifications; plans flow of work through plant; directs time and production studies; uses time and production studies to determine production efficiency and as basis for insuring maximum production; directs planning of plant facilities to increase efficiency of workers; recommends wage scales, piece rates, and bonus plans; promotes safety campaigns to reduce industrial accidents.

Must have a thorough knowledge of industrial plant operations and design of plant machinery. Must be able to plan and direct work of others.

Civilian experience in plant or factory operation or industrial engineering essential.

College training in industrial or mechanical engineering essential.

#### SOURCE JOBS

Industrial Research Engineer	Plant Engineer
Mechanical Engineer	Production Engineer
	Safety Engineer

#### SAFETY OFFICER (7422)

Inspects installations and facilities for the existence of hazards endangering life and property. Studies facility areas, activities, machinery installations, equipment, training instructions and procedures; makes recommendations for accident prevention; investigates accidents and collects data required for proper accident analysis; makes recommendations to correct or eliminate causes and conducts or arranges for educational programs and meetings for the purpose of instructing personnel in recognition of existing hazards and creating safety consciousness; investigates and studies operating efficiency of subsidiary activities and performances under existing policies and instructions. May organize and operate installation or facility safety programs or may direct the safety activities of major army units. May prepare and coordinate general policies and instruction relative to the organization and operation of such programs; maintains liaison with arms and services and other governmental and civilian agencies interested in safety activities.

Must have thorough knowledge of War Department policies and procedures pertaining to safety activities. Should be familiar with industrial processes, production methods and management policies, military training requirements and methods, and hazards inherent thereto.

Should have college training in industrial or other appropriate field of engineering or technical training in accident prevention, public safety or safety engineering.

#### INDUSTRIAL HYGIENIST (7430)

Assists in establishing a system of principles or rules for the promotion of health among industrial workers. Inspects industrial environment of arsenals, depots, and other plants for industrial health hazards; evaluates conditions and recommends corrective measures to promote sanitation and health; determines ventilation adequacy and requirements; makes analyses of and evaluates mists, vapors, dusts, gases, and materials to determine health hazards and to recommend appropriate control measures; recommends selection, procurement, and maintenance of protective devices such as respirators, masks, gloves, goggles, and clothing.

Must have at least 2 years' appropriate experience in industrial hygiene engineering work.

Must be graduate of approved college or uni-

versity, with major in mechanical, chemical, industrial, or ventilating engineering. Post graduate work in these fields desirable.

### MECHANICAL ENGINEER (7500)

Directs or supervises mechanical engineering activities concerned with mechanical or industrial equipment. Designs or assists in the designing of and prepares plans and specifications for tools, internal combustion or steam engines, machines, machine tools, and other specialized or allied mechanical and industrial equipment; instructs and supervises activities of personnel of drafting section in lay-out and preparation of work drawings; supervises maintenance of project records and reports. May assist in lay-out of production equipment for industrial plants and in general maintenance of machinery and equipment.

Must have thorough knowledge of principles of mechanical engineering and ability to perform professional work in field of specialization.

Military experience desirable.

Should have practical experience in responsible mechanical engineering work.

Should have college degree in mechanical engineering or equivalent practical experience.

### SOURCE JOBS

Mechanical Engineer                      Mechanical Designer  
Master Mechanic

### INSPECTION ENGINEER (7501)

Performs or supervises inspectional work requiring professional mechanical engineering skill. Inspects the installation of various types of mechanical equipment in buildings, shops, and similar structures; designs calipers, gauges and other tools and instruments for use in inspection work; inspects and adjusts weighing and measuring devices and other instruments; inspects heating and plumbing installations and steam and internal combustion engines; prepares inspection reports with recommendations for improvement. May inspect fine precision instruments.

Must have knowledge of mechanical engineering and skill in use of instruments and apparatus normally used in making inspection.

Experience in inspection, manufacture, or maintenance of mechanical equipment desirable.

College training in mechanical engineering or equivalent experience essential.

### SOURCE JOBS

Mechanical Engineer                      Specification Writer, me-  
Mechanical Inspector                      chanical equipment  
Mechanical Maintenance  
Engineer

### AIR CONDITIONING AND REFRIGERATION ENGINEER (7502)

Directs or supervises the construction, installation, operation, and maintenance of refrigeration and air conditioning plants and equipment. Prepares estimates and detailed plans for installation of refrigeration and air conditioning plants and equipment; supervises installation, operation, and maintenance of electric motors and pumps, brine compressors, ammonia water filters, coolers, and other air conditioning or refrigeration equipment used in production of ice and refrigerants; periodically inspects plant equipment to determine condition and compliance with maintenance regulations; examines temperature records and determines mechanical adjustments necessary to produce desired temperatures; instructs and supervises personnel in repair of equipment; supervises preparation of reports and records. May assist post engineer in other mechanical engineering activities.

Must have thorough knowledge of engineering principles of refrigeration and air conditioning. Must have thorough knowledge of operation and maintenance of refrigeration and air conditioning equipment. Should be familiar with all types of refrigerants.

Civilian experience in design and manufacture of air conditioning and refrigeration equipment desirable.

College or advanced technical school training in refrigeration and air conditioning engineering essential.

### SOURCE JOBS

Refrigeration Engineer                      Mechanical Engineer  
Air Conditioning En-  
gineer

### HEATING AND VENTILATING ENGINEER (7503)

Supervises construction and maintenance of heating and ventilating facilities and equipment. Inspects completed and occupied buildings to obtain information for remodeling heating and ventilating systems; prepares lay-outs and detailed plans of

heating and ventilating systems; makes calculations of heat losses, radiator requirements, sizes of piping, or other similar calculations; supervises installation, operation, repair, and maintenance of boilers, radiators, pipes, ventilators, ducts, motors, and other heating and ventilating equipment; maintains records and prepares periodic reports. May assist post engineer in other engineering or administrative duties concerned with construction or maintenance projects.

Must have knowledge of basic principles of mechanical engineering and ability to solve problems concerned with design, operation, and maintenance of heating and ventilating systems and equipment.

Civilian experience in design, manufacture, and installation of heating or ventilating systems and equipment desirable.

College training in mechanical engineering desirable.

#### SOURCE JOBS

Heating and Ventilating Engineer	Mechanical Engineer Heating and Plumbing Contractor
Heating and Ventilating Contractor	

#### PORT MECHANICAL ENGINEER (7505)

Supervises the design, construction, maintenance, and repair of mechanical equipment used in the construction and operation of marine structures, piers, docks, warehouses, reinforced concrete and other waterfront loading and unloading facilities. Prepares drawings and specifications for various types of pier and water-front machinery and parts; supervises installation, inspection alterations, and addition of special equipment; assigns personnel in the operation of port machine shops; confers with other port officers on mechanical problems. May assist in connection with the construction and repair of floating equipment.

Must have knowledge of mechanical principles and methods involved in the design, construction, and repair of machinery used in ship side handling of cargo and other port activities.

Civilian experience in the construction and repair of mechanical dock facilities very desirable.

College training in mechanical engineering desirable.

#### SOURCE JOBS

Dock Engineer	Maintenance Superin-
Marine Engineer	tendent, marine
Port Engineer	

#### RAILWAY MECHANICAL ENGINEER

(7507)

Supervises mechanical engineering activities concerned with the design of locomotive and car parts for replacement, conversion, and repair purposes. Examines parts and prepares design and specifications; supervises draftsmen in lay-out and preparation of blueprints; trains personnel in drafting procedures.

Must have thorough knowledge of principles of railway mechanical engineering, particularly in railroad locomotive and car construction, and railway shop practices.

Experience in railway engineering essential.

Should have college education in mechanical engineering or equivalent practical experience.

#### SOURCE JOBS

Mechanical Engineer	Mechanical Draftsman
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#### AUTOMOTIVE RESEARCH ENGINEER

(7509)

Supervises research in forms of exhaustive investigations and experimentations on automotive equipment and accessories to discover, interpret, and apply new facts concerning operating efficiency. Tests operating efficiency of automotive equipment and accessories such as automobiles, trucks, trailers, tractors, motors, and brakes; plans, designs, develops, and tests experimental automotive equipment and accessories; interprets results of tests and experiments; prepares findings and makes recommendations for new equipment and improvement of current equipment based on tests and experiments; advises automotive engineers in design, methods of workmanship, and materials to be used.

Must possess analytical and creative ability and be able to supervise extensive automotive research programs.

Military experience with arm or service using automotive equipment under variable conditions desirable.

Civilian experience in automotive research and testing fields desirable.

College training in mechanical engineering essential.

#### SOURCE JOBS

Automotive Engineer	Motor Transport Designer
Mechanical Engineer	Testing Engineer
Automotive Research Specialist	

## MECHANICAL RESEARCH ENGINEER (7510)

Supervises research in form of exhaustive investigations and experimentations on mechanical apparatus, instruments, and other equipment to discover, interpret, and apply new facts concerning operating efficiency. Tests operating efficiency of mechanical equipment; plans, designs, develops, and tests experimental mechanical equipment; interprets results of tests and experiments; prepares findings and makes recommendations for new equipment and improvement of current equipment based on tests and experiments; advises mechanical engineers in design, methods of workmanship, and materials to be used.

Must possess analytical and creative ability, and be able to supervise extensive mechanical equipment research programs.

Civilian experience in mechanical engineering research projects desirable.

College training in mechanical engineering essential.

### SOURCE JOBS

Mechanical Designer	Mechanical Research
Mechanical Engineer	Specialist

## SHIP ARMAMENT OFFICER (7531)

Supervises the installation, repair, maintenance, and inspection of armament on cargo and transport vessels and in connection with port installations. Inspects transport and freight vessels to determine adequacy and condition of armament and related supplies; supervises operations of ordnance repair shop and the repair of troop ordnance equipment in the area; requisitions ordnance supplies and equipment; prepares plans and specifications for installation and renovation of ship's armament; supervises maintenance of files and records.

Must have knowledge of non-Navy ship armament and ordnance matériel.

Military training in ship armament work essential.

Civilian experience in mechanics or mechanical engineering essential. College training in mechanical engineering desirable.

### SOURCE JOBS

Machinist	Mechanical Engineer
Armorer	Millwright

## TECHNICAL INSPECTOR, AIR (7536)

Supervises a technical inspection unit and is responsible for making technical inspections and investigations. Inspects installations and units to check technical qualifications of personnel, scope, and thoroughness of required maintenance and inspection of aircraft and other technical equipment, and insures corrective action on discrepancies and irregularities; make spot checks of equipment and facilities during visits to evaluate technical administration in comparison with units; insures maintenance of equipment, compliance with technical orders and regulations, observance of safety and fire regulations, and proper accomplishment of inspection and maintenance records; interprets technical orders; advises commanding officer on results of inspection.

Must have thorough technical knowledge of Army Air Forces equipment maintenance supply and inspection procedures.

Military experience as an engineering officer in an Army Air Forces tactical unit very desirable.

Civilian experience in supply, production, or engineering phases of aircraft production desirable.

Technical school training in aircraft construction or maintenance desirable.

### SOURCE JOBS

Aeronautical Engineer	Production Manager,
Mechanical Engineer	aircraft
Automotive Engineer	Inspector, aircraft
	production

## ORDNANCE PROOF OFFICER (7539)

Directs or supervises testing of ordnance equipment to determine its quality and effectiveness for military use. Tests strength of material used in construction of equipment and supplies; tests arms, armament, ammunition, tanks, ordnance vehicles, and other equipment and supplies under simulated combat conditions; checks results against required performance and investigates possible developments for improvement; compares performance records with known effectiveness of similar enemy equipment; examines captured enemy ordnance; prepares technical reports of conclusions for higher authority.

Must have thorough knowledge of ordnance and methods of testing quality and effectiveness of ordnance equipment and supplies.

Civilian experience in production of ordnance equipment and supplies or industrial testing processes desirable.

College training in chemistry, physics, or mechanical, electrical, or chemical engineering essential.

#### SOURCE JOBS

Mechanical Engineer	Testing Engineer
Electrical Engineer	Chemist
Chemical Engineer	Physicist

#### AERONAUTICAL ENGINEER (7540)

Directs or supervises aeronautical engineering activities concerned with aircraft equipment and accessories. Designs and prepares plans and specifications for airplanes, seaplanes, propellers, wings, and other airplane parts and accessories; supervises assembly of planes, installation of motors, and other equipment; tests models to determine flying characteristics of airplanes; tests finished parts of plane equipment and assembled airplanes; analyzes stresses set up in parts of airplane by applied loads to determine ability to withstand various flying conditions; consults with aeronautical research engineers on matters of design, methods of workmanship, and materials to be used.

Must have thorough knowledge of mechanical engineering principles as applied to design and construction of military aircraft and equipment, including ordnance.

Military experience with branch of service using aircraft equipment under variable conditions desirable.

Civilian experience in design, construction, and maintenance of aircraft equipment desirable.

College training in mechanical engineering with specialization in aeronautics essential.

#### SOURCE JOBS

Aeronautical Research Engineer	Mechanical Engineer
Aeronautical Research Specialist	Automotive Engineer

#### ELECTRONICS REVIEW OFFICER (7601)

Examines technical reports and other data received from Military Intelligence, foreign governments, and laboratories concerning new developments and applications in field of electronics; prepares reports of findings and makes recommendations as to value for the Army.

Military experience desirable. Must have G-2 clearance.

Should have civilian experience in radio engineering or in manufacture of electronic equipment.

Should have college education with specialization in electrical engineering or electronic physics.

#### SOURCE JOBS

Electronic Physicist	Radio Engineer
Electrical Engineer	Sound Research Engineer
Electronics Engineer	

#### ELECTRICAL RESEARCH ENGINEER (See C1) (7610)

Directs, supervises, and performs electrical research to discover and develop new applications of electro-physical principles, to develop new and more efficient electrical equipment, and to improve existing equipment. Reviews technical literature and proceedings of technical societies; plans and supervises experimental work in abstract electro-physical principles and their applications; directs construction of experimental models and supervises tests to determine practicability for mass production; advises on electrical engineering and communications engineering problems. May prepare detailed specifications for apparatus. May direct design, engineering, and construction of working models. May collaborate in the supervisory inspection of pilot runs.

Should be thoroughly familiar with research problems in electro-physical field. Should have working knowledge of design and construction of special apparatus.

Military experience desirable.

Should have considerable experience in electro-physical field, including research. Experience in design and engineering of electrical apparatus desirable.

Should be college graduate with specialization in electrical engineering, communications engineering, or physics.

#### SOURCE JOBS

Electrical Engineer	Radio Engineer
Physicist	

#### ELECTRICAL ENGINEER (7611)

Directs, plans, and supervises construction, installation and maintenance of electrical power and lighting systems. Prepares plans and specifications for electrical power and light distribution systems including transformer stations, high tension power lines, and generating plants; maintains records of

activities and prepares reports. May supervise operation, maintenance, and repair of electric fire control communication and searchlight installations.

Must have thorough knowledge of electrical materials and apparatus, power generation and distribution, and principles of magnetism and illumination.

Should have extensive civilian experience in electrical engineering work, including construction and maintenance of electrical systems.

Should have college education with specialization in electrical engineering or equivalent practical experience.

### SOURCE JOBS

Electrical Engineer	Power Plant Installation
Powerhouse Superintendent	Engineer

### TELEPHONE ENGINEER (7700)

Designs lay-out, prepares specifications, and supervises installation, technical operation and maintenance of a permanently established telephone system. Visits sites of new projects to estimate and plan requirements for temporary services during construction period and future permanent operations; arranges with local telephone companies for temporary service facilities, and insures that a major portion of temporary installations may be used as part of the permanent system; confers with the area engineer concerning joint usage of electrical power poles for telephone wires and cables; provides for adequate protection of telephone system from lightning and electrical current and interference from power lines; provides adequate housing facilities for central office equipment; establishes technical operation and maintenance standards of the system and supervises performance of work; prepares correspondence and submits periodic reports.

Must be skilled in design of outside and inside telephone lines and switching equipment and in installation, operation, and maintenance of automatic and manual telephone station equipment. Must have thorough knowledge of general telephone engineering practices.

Military experience desirable.

Civilian engineering or supervisory experience with telephone company essential.

College training in electrical or communications engineering essential.

### SOURCE JOBS

Division Plant Engineer	Division Construction
District or Division Plant Superintendent	Superintendent

### COMMUNICATIONS ENGINEER (7701)

Supervises design, research, and development of Signal Corps equipment including telephone, telegraph, radio, and radar equipment. Collects, evaluates, and reports on technical data of foreign and domestic equipment; maintains liaison with arms or services, governmental agencies and United States Navy to obtain and exchange essential data; coordinates developmental work with agencies responsible for procurement and supply; analyzes field experience to eliminate deficiency in equipment and develop new equipment. May act as consultant on development of Tables of Basic Allowances and on solution of maintenance problems.

Military experience in field and Army laboratories very desirable.

Civilian executive experience in communication research and engineering problems essential.

College training in electrical or communications engineering or specialization in electronic physics essential.

### SOURCE JOBS

Physicist	Consulting Communications Engineer
Communications Research Engineer	Director, communications laboratory
Communications Equipment Engineer	

### MAINTENANCE RESEARCH ENGINEER, COMMUNICATIONS EQUIPMENT (7702)

Directs or supervises research, development and design of maintenance, testing, and repair equipment for all echelons of signal communications equipment maintenance. Supervises investigations and recommends suitable testing and maintenance equipment needed to keep communications equipment in operation; recommends extent of repairs to be made at various echelons; supervises preparation of repair instruction manuals.

Should have working knowledge of general shop practices and shop equipment.

Military experience or training in appropriate Signal Corps school essential.

Should have civilian experience in design or manufacture of communications equipment.

Must be graduate of technical school or be a graduate engineer in electrical, radio, or communications engineering.

#### SOURCE JOBS

Radio Engineer	Electrical Engineer
Sound Research Engineer	Electronic Physicist

#### COMMUNICATIONS SPECIFICATION OFFICER (7703)

Supervises preparation and review of drawings and specifications for procurement and production of Signal Corps equipment and parts; prepares lists of maintenance and spare parts for all types of Signal Corps equipment and maintains records of drawings and specifications; maintains liaison with procurement districts and manufacturers concerning changes in specifications.

Military experience desirable.

Civilian experience in a drafting department of a communications equipment manufacturing plant essential.

Must be graduate of technical school. College training in electrical engineering very desirable.

#### SOURCE JOBS

Draftsman, communications equipment	Communications Engineer
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#### TELEPHOTO OFFICER (7704)

Supervises installation, operation, and maintenance of telephoto equipment. Takes and processes still photographs with standard equipment; prepares and issues instructions regarding the training of personnel for operating stations and laboratories.

Must have thorough knowledge of and be able to operate various devices for transmitting photographs by wire or radio.

Must be familiar with standard photographic techniques.

Military experience desirable.

Civilian experience in the operation of wire and radio devices for the transmission of photographs essential.

Should have technical school training.

#### SOURCE JOBS

Radio Engineer	Telephone Transmission Engineer
Telephoto Engineer	
Electronics Engineer	

#### COMMUNICATIONS STANDARDS ENGINEER (7705)

Directs, supervises, or coordinates formulation of standardization policies and programs and establishment of appropriate standards for signal equipment, reviews and coordinates data from laboratories, manufacturers, and other sources. May represent the Signal Corps in interbranch and interdepartment standardization committees. May initiate action to adapt existing standards to current needs. May initiate or supervise the revision of specifications for conformance with current standards. May perform these duties generally, or in connection with specific types of signal equipment.

Should have broad training in communications engineering and production techniques. Must have G-2 clearance.

Military experience desirable.

Should have extensive experience in research, design, or production of electrical or communications equipment.

Should be college graduate in communications or electrical engineering.

#### SOURCE JOBS

Electrical Engineer	Radio Engineer
Communications Engineer	

#### TELEPHONE AND TELEGRAPH RESEARCH ENGINEER (7710)

Directs, supervises, and performs research to develop and design new or improved telephone and telegraph equipment. Studies application of fundamental principles of physics to telephone and telegraph circuits and apparatus; directs construction of experimental models and conducts tests to determine practicality; directs engineering and construction of working models; collaborates in supervisory inspection of pilot runs; advises on telephone and telegraph engineering problems. May prepare detailed specifications for procurement of new apparatus.

Should be thoroughly familiar with research problems and techniques as applied to telephone and telegraph transmission equipment.

Military experience desirable.

Should have extensive experience in telephone or telegraph research or design.

Should have college degree in electrical or communications engineering or physics.

### SOURCE JOBS

Telephone Research Engineer  
Electrical Engineer

Telegraph Research Engineer  
Physicist

### TELEPHONE EQUIPMENT ENGINEER (7720)

Reviews traffic estimates to determine need for telephone inside plant equipment. Prepares plans and draws specifications; prepares standards and instruction manuals for the testing, operation, and maintenance of equipment. May supervise technical operation and maintenance of central office. May supervise installation and acceptance testing of equipment in place.

Military experience desirable.

Civilian experience in telephone engineering desirable.

College training in communications or electrical engineering desirable.

### SOURCE JOBS

Wire Chief  
Traffic Engineer

Central Office Equipment Installation Engineer

### TELEPHONE AND TELEGRAPH INSTALLATION AND TEST ENGINEER (7723)

Directs or supervises installation and testing of equipment in telephone or telegraph central office. Reviews lay-outs received from equipment engineers and determines if building conditions permit specified installations; obtains construction matériel not otherwise specified; supervises acceptance testing of equipment; prepares records of installed equipment and circuits; prepares operating and maintenance standards and instructions; organizes construction crews. May provide for temporary use of part of equipment before installation is complete. May train operating and maintenance staff.

Military experience desirable.

Should have civilian supervisory or engineering experience in installation, acceptance testing, or operation of central office telephone or telegraph equipment.

Should be technical school graduate. College training in communications or electrical engineering desirable.

### SOURCE JOBS

Central Office Equipment Supervisor  
Wire Chief

Central Office Installation Equipment Engineer

### TELEPHONE AND TELEGRAPH POWER PLANT ENGINEER (7724)

Determines type and capacity of central office power plant equipment required. Specifies and requisitions equipment and matériel; prepares lay-outs and wiring diagrams; prepares operation and maintenance standards and instructions. May supervise installation and acceptance testing of power plant equipment.

Military experience desirable.

Civilian experience in inside plant telephone or telegraph engineering with specialization in central office power plant desirable.

Must be technical school graduate. College education in electrical or communications engineering desirable.

### SOURCE JOBS

Power Plant Engineer  
Inside Plant Engineer

Electrical Engineer, small power installations

### TELEPHONE TRANSMISSION ENGINEER (7730)

Reviews needs for telephone circuits as indicated by traffic surveys. Reviews available facilities and determines type of transmission system to be used and additional facilities to be provided; specifies design factors; prepares engineering standards and instructions for the maintenance of lines and circuits. May investigate field conditions to determine and correct such external interference factors as the proximity of power lines. May supervise construction of transmission line and cable systems.

Military experience desirable.

Should have extensive civilian experience in telephone engineering or in engineering of telephone transmission systems.

Should be college graduate in electrical or communications engineering or have equivalent in practical experience and training.

### SOURCE JOBS

Outside Plant Engineer  
Transmission Engineer  
Toll Engineer

Electrolysis and Induction Engineer

## TELEPHONE AND TELEGRAPH TRAFFIC ENGINEER (7740)

Surveys telephone or telegraph traffic conditions to determine distribution of facilities and circuits to provide suitable service. Determines times and geographic distribution of load; recommends provision of facilities, equipment, and personnel to meet normal load and estimated emergency requirements; directs routing of traffic to meet abnormal conditions.

Should have managerial experience in traffic engineering with telephone or telegraph system.

Training in field of communications engineering desirable.

### SOURCE JOBS

Toll Traffic Engineer      Toll Line Supervisor  
Traffic Superintendent

## COMMERCIAL COMMUNICATIONS ENGINEER (7760)

Negotiates and supervises execution of contracts for communication services with commercial companies. Determines need for services; insures that tariffs are in accordance with Army regulations; verifies installations and bills for services; investigates service conditions and arranges for necessary improvements.

Military experience desirable.

Should have civilian experience in commercial communications engineering.

College training in communications engineering with special training in commercial phases of communication work desirable.

### SOURCE JOBS

Commercial Engineer, telegraph and telephone      Sales Engineer, communications  
Rate Engineer      Sales Engineer  
Development Engineer      District Manager, telegraph or cable company

## TELEPHONE AND TELEGRAPH OUTSIDE PLANT ENGINEER (7770)

Superintends lay-out and construction of telephone and telegraph lines, including open wire and cable construction. Surveys and selects suitable routes; determines necessary types of construction and prepares preliminary engineering data for use of transmission engineer; superintends the construction crews; determines and obtains construction ma-

tériel and equipment not otherwise specified or provided; directs training of linemen, splicers, and cablemen. May prepare standards and instructions for the inspection and maintenance of outside plant equipment.

Military experience desirable.

Should have civilian engineering experience in outside plant construction.

Should have college education in electrical or communications engineering or equivalent practical experience and training.

### SOURCE JOBS

Transmission Engineer      Construction Supervisor  
Line Construction      Outside Plant Engineer  
Foreman

## COMMUNICATIONS RESEARCH SPECIALIST (7790)

Serves as planning technician and consultant on communication problems. Supervises design of proposed equipment and checking of specifications for equipment to be procured; maintains liaison with other agencies, such as Signal Corps development laboratories, National Research Council, National Advisory Committee on Aeronautics, and other industrial and university laboratories on problems concerning radio, telephone, and telegraph communications research; prepares technical reports governing results of tests and demonstrations of new research developments; renders technical advice on communication problems to operating agencies.

Military experience desirable.

Civilian experience in research, design, or manufacture of radio, telegraph, or telephone equipment, including air-borne radio or radio direction finding equipment, desirable.

College training in radio and electrical engineering or advanced physics essential.

### SOURCE JOBS

Communications Engineer      Director, radio research laboratory  
Production Engineer, radio manufacturing      Radio Telephone and Telegraph Design Engineer

## TELEGRAPH ENGINEER (7800)

Prepares plans and specifications for and supervises installation, technical operation, and maintenance

nance of a permanent telegraph system. Estimates requirements for installations of a proposed communication system or for extension and modification of existing system and submits plans and specifications for approval; coordinates, supervises, and inspects installation of equipment and establishes electrical test procedures; supervises and instructs operating and maintenance personnel in technical care and functioning of telegraph systems; cooperates with telephone engineer to incorporate auxiliary or multiplexed telegraph circuits in telephone system to maintain new line construction at a minimum; locates, investigates, and tests electrical communication systems.

Must have thorough knowledge of telegraph engineering practices, including line construction, installation, and operation of phantom, multiplex, and simplex circuits and installation, maintenance, and repair of teletype printers and central switching equipment.

Military experience desirable.

Civilian experience in a responsible capacity in the construction and maintenance of electrical wire communication systems essential.

College training in electrical or communications engineering or equivalent practical experience essential.

#### SOURCE JOBS

Electrical Engineer      Communications Engineer  
Telephone Engineer

#### TELEGRAPH EQUIPMENT ENGINEER (7820)

Reviews traffic estimates and determines needs for telegraph inside plant equipment. Prepares plans and specifications; prepares standards and instruction manuals for testing, operation, and maintenance of telegraph equipment. May prepare procurement requisitions and follow up procurement of equipment. May supervise installation and testing of equipment. May instruct personnel in installation, testing, operation, and maintenance of telegraph equipment.

Military experience desirable.

Civilian engineering experience in telegraph central offices or other telegraph engineering activities very desirable.

College degree in electrical engineering with specialization in communications engineering desirable.

#### SOURCE JOBS

Telephone Equipment      Inside Plant Equipment  
Engineer                      Engineer  
    Telegraph Engineer

#### TELEGRAPH TRANSMISSION ENGINEER (7830)

Designs and prepares plans and specifications for construction of telegraphic transmission systems. Analyzes available facilities and determines type of transmission systems to be used and additional facilities to be provided; reviews traffic surveys to determine need for telegraph circuits; specifies design factors for transmission system and prepares engineering standards and instructions for maintenance of lines and circuits. May investigate field conditions to determine and correct undesirable external factors such as proximity of power lines and other interference factors. May superintend construction of transmission line and cable systems.

Military experience desirable.

Extensive civilian experience in design, construction, or maintenance and operation of telegraph transmission systems essential.

College training in electrical or communications engineering very desirable.

#### SOURCE JOBS

Telegraph Outside Plant      Telegraph Transmission  
Engineer                              Engineer

#### RADIO ENGINEER (7860)

Directs or supervises engineering activities concerned with design and development of radio parts and equipment. Designs and prepares plans and specifications for radio, radio parts, and related accessories; supervises and instructs personnel in the construction and installation of radio equipment and facilities; tests models or finished product to determine operating efficiency; plans and coordinates repair and salvage programs; acts as consultant on radio engineering problems. May prepare text books and instruction manuals on radio theory, design, operation, and maintenance. May direct technical operations of a large radio station.

Must have thorough knowledge of mechanical and electrical engineering practices as applied to design and construction of radio parts and equipment. Should be familiar with operation and maintenance practices.

Considerable civilian experience in design, and

construction, or installation; operation and maintenance of radio equipment essential.

College degree in electrical engineering with specialized work in radio engineering very desirable.

#### SOURCE JOBS

Radio Engineer

Electrical Engineer

#### RADIO EQUIPMENT MANUFACTURING ENGINEER (7861)

Supervises design and manufacture of specialized radio equipment. Analyzes workings of existing radio apparatus and determines feasibility of improving manufacture; supervises fabrication and testing of equipment and recommends approval or rejection; trains personnel in development and manufacture of new equipment.

Military experience desirable.

Civilian administrative and technical experience in radio manufacturing essential.

Should be college graduate with specialization in electrical or radio engineering.

#### SOURCE JOBS

Radio Manufacturer

Radio Engineer

#### RADIO ENGINEER, DIRECTION AND RANGE FINDING RADIO TELEPHONE (7862)

Designs, develops, tests, and supervises construction of radio telephone and facsimile equipment, direction and range finders, and other related equipment. Develops apparatus mechanically and electrically to conform with Signal Corps practice for service conditions; makes engineering sketches and supervises construction of rough and final models; conducts research and development of new apparatus; interprets electrical and mechanical test data to overcome deficiencies and to effect improvement; prepares engineering reports on the development of apparatus; makes recommendations concerning military and technical features of equipment; maintains liaison with using arms, governmental agencies, commercial airlines, and manufacturers on problems pertaining to development of new equipment.

Must have thorough knowledge of theory of operation and practical knowledge of construction of radio telephone and range and direction finding equipment. Must be thoroughly familiar with existing Army radio equipment and be familiar with its limitations.

Military experience desirable. Senior officers must have field military training and experience.

Civilian experience in performance of advanced radio engineering work very desirable.

College training in electrical or radio engineering essential.

#### SOURCE JOBS

Radio Engineer

Radio Research Engineer

Electronic Engineer

#### RADIO MAINTENANCE AND REPAIR OFFICER (7864)

Supervises maintenance and repair of radio equipment at a post, station, depot, or other military installation. Supervises and instructs personnel in inspection and adjustment of radio communication equipment; investigates radio interference problems and institutes measures for their elimination; maintains adequate supply of replacement parts and material; supervises preparation and maintenance of reports and records.

Military experience desirable.

Civilian experience in operation, maintenance, and repair of radio communication equipment very desirable.

Advanced technical school training in radio or communications engineering, or equivalent training and practical experience essential.

#### SOURCE JOBS

Radio Engineer

Radio Maintenance Supervisor, transmitting station

Electrical Engineer

#### CONSULTING COMMUNICATIONS ENGINEER (7865)

Coordinates methods and procedures of signal communication utilized by the several arms or services. Studies military and technical characteristics of signal equipment, apparatus, and procedures; confers with engineers and specialists on causes and effects of faulty operations and corrective devices available for elimination; investigates, reviews, and reports on communication problems of Army; recommends research, development, procurement, and allocations to meet operational needs. May plan and coordinate procurement and supply activities. May represent arm or service on communication problems.

Should have thorough knowledge of various meth-

ods of communication, such as radio, telegraph and telephone, and be familiar with military communication problems.

Military communication experience essential. Completion of courses in communication desirable.

Should have civilian experience in communications engineering.

Must have college education in electrical, or communications engineering, or equivalent training and practical experience.

#### SOURCE JOBS

Radio Engineer	Consulting Engineer
Electrical Engineer	Telephone Engineer
Telegraph Engineer	

#### RADIO TRANSCRIPTION AND SOUND ENGINEER (7869)

Supervises electrical transcription of radio or other programs. Consults with sponsors or program producers to arrange for transcriptions and to assist in formulation of program material; meets with sound engineers to achieve and maintain consistent recording standards; directs arrangement of pick-up microphone, electrical mixing of frequency and volume, checking of transmission lines, and reproduction of sound effects; contacts record manufacturing plants to insure that transcriptions possess satisfactory reproduction and tracking qualities; arranges for auditions of transcribed material by superior officers; directs shipment and traffic of transcriptions between manufacturing plants and quartermaster depot. May consult with script writers.

Must have thorough knowledge of technical factors of recording, reproduction, and processing of transcriptions and manufacture of records. Must be thoroughly familiar with processing, presentation, and control of radio programs.

Experience in technical procedure and control of radio essential.

College training in radio or electrical engineering or equivalent training and experience very desirable.

#### SOURCE JOBS

Radio Engineer	Radio Technician
Sound Engineer	

#### RADIO RESEARCH ENGINEER (7870)

Supervises research in form of exhaustive investigations and experimentations on radio equipment, parts, and accessories to discover, interpret, and ap-

ply new facts concerning operating efficiency. Studies applications of fundamental principles of physics to radio circuits and apparatus; plans, designs, develops, and tests experimental radio equipment and parts; interprets results of tests and experiments; prepares findings and makes recommendations for new equipment and improvement of current equipment based on tests and experiments; acts as consultant on radio engineering problems. May prepare procurement specifications for new apparatus.

Must possess analytical and creative ability. Must be capable of supervising extensive radio research programs.

Military experience desirable. Should have completed course in radio, radar, or air warning equipment at Signal Corps school, or have comparable training.

Should have extensive civilian experience in radio or electronics research or in design of radio or electronic apparatus.

Should have degree in electrical or communications engineering or physics.

#### SOURCE JOBS

Electrical Engineer	Communications Engineer
Electronics Engineer	Radio Engineer

#### RADAR PLANNING OFFICER (7871)

Supervises planning of station building and component lay-outs for fixed radar stations and for station site lay-outs for fixed and portable stations; supervises preparation of drawings and instructional material for use in field installations; maintains liaison with using arms relative to installation, modification of installations, and operational efficiency of systems.

Military experience desirable. G-2 clearance essential.

Civilian supervisory experience in radio or telephone carrier and repeater design or installation desirable.

Should have college or technical school training with specialization in electrical engineering.

#### SOURCE JOBS

Telephone and Carrier Repeater Engineer	Telephone Engineer Radio Engineer
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#### SOUND AND LIGHT RESEARCH ENGINEER (7872)

Conducts engineering research concerned with im-

proving or discovering new and more efficient sound and light equipment. Plans and directs technical duties of assistants; examines technical literature on subject of research; plans and supervises controlled experimental work to scientifically determine value of hypotheses advanced, or practical application of known scientific phenomena; prepares reports indicating conclusions and makes recommendations for their effective use. May contact manufacturers for purpose of adapting commercial equipment to military use. May accompany equipment delivered into the field for demonstration before test boards. May maintain contact with using forces in order to modify or take other appropriate action to increase value of equipment.

Military experience desirable.

Civilian experience in field of sound, light, or electronics research engineering essential.

Should have college degree in electrical engineering.

#### SOURCE JOBS

Electrical Engineer	Electronics Physicist
Electrical Research Engineer	Sound and Light Engineer
Radio Engineer	

#### RADIO COMMUNICATIONS OFFICER, LIAISON (7881)

Maintains official liaison with related Government agencies on radio communications problems. Reviews requests for new radio purchases and standardization of radio equipment in terms of frequency range; reviews purchase requisitions for crystals in terms of need and value; assigns proper radio frequencies for radio installations; compiles and assigns tactical and international call signs for members of United Nations operating within boundary of the United States sphere of strategy; discusses problems of frequency allocations and radio interference with related Government departments. Reviews non-Government license applications involving military issues; represents War Department on interdepartmental radio advisory committees concerning domestic and foreign radio frequency allocations.

Military experience desirable.

Civilian experience in electrical communications engineering essential.

College training with specialization in radio engineering or equivalent training and experience essential.

#### SOURCE JOBS

Radio Engineer	Executive, radio broadcasting system
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#### RADAR OBSERVER RCM (7888)

Operates, adjusts, and performs flight maintenance on radio and radar countermeasures equipment and radar altimeters employed by airborne units. Operates countermeasures equipment to render ineffective enemy radio and radar communications and countermeasures equipment; advises appropriate units in all matters relating to the use of countermeasures equipment; makes minor hand repairs when necessary to keep equipment in good operating condition.

Must have thorough knowledge of circuits, design, theory, and construction of radio and radar equipment. Must be thoroughly familiar with friendly and enemy radar, radio and navigational equipment, and their tactical employment.

Must have completed Army Technical School course or have equivalent radio experience for qualification as communications officer, and have completed AAF technical school course for radar observer, RCM.

Must be physically qualified for combat flight duty under provisions of AAF Regulation 50-7.

#### AUDIO ENGINEERING OFFICER (7890)

Designs and supervises the operation of sound and public address systems and performs related duties in field of sound and acoustics. Supervises location and installation of loudspeakers and sound-absorbent material in theaters and other buildings to obtain maximum acoustic efficiency; adjusts volume and tone of amplifying system to secure best effect; locates loudspeakers in open air in accordance with features of terrain to project sound the greatest possible distance; prepares scripts for voice projection across enemy lines; instructs and trains personnel in operation, maintenance, and employment of public address systems and in theories of sound and acoustics.

Must have thorough knowledge of interior and exterior acoustics, sound projection, and construction, operation, and maintenance of audio amplification systems.

Military experience desirable.

Civilian professional engineering experience in field of acoustics and sound projection essential.

College training with specialized studies in acoustics and sound projection essential.

## SOURCE JOBS

Radio Engineer      Sound and Acoustics Engineer  
Electrical Engineer   Telephone Engineer

### RADIO COMMUNICATIONS COORDINATING OFFICER (7891)

Examines various types of radio equipment produced by United Nations and enemy countries; reviews and determines needs for new radio equipment for arms and services, and coordinates requirements; investigates new developments, and studies possibilities of interchangeability of parts and elimination of unnecessary items; prepares reports on new developments in field of radio communication.

Should be familiar with all types of radio equipment and be able to determine significant variations from standard patterns.

Military experience in field communication very desirable. Should have completed radio course at Signal Corps school.

Should have civilian experience in field of radio communication and engineering.

Should have technical school or college training with specialization in electrical engineering.

## SOURCE JOBS

Radio Engineer      Production Engineer,  
Electronics Engineer      radio manufacturing

### SIGNAL EQUIPMENT INSPECTION ENGINEER (7892)

Plans, directs, and supervises inspection of pre-production samples and pilot runs of Signal Corps material to insure conformance with specifications and eliminate manufacturing difficulties. Engineers design changes during production for substitution of critical materials or to effect changes in specifications; prepares or revises instruction manuals for inspection of signal equipment; maintains close liaison with using arms, other agencies, boards, and branches. May supervise preparation of instruction books covering installation, maintenance, and operation of signal equipment.

Military experience including field operation of signal equipment very desirable. Should have experience in Signal Corps laboratory. G-2 clearance essential.

Should have extensive civilian experience in development, design, or manufacture of communication equipment.

Technical school or college training with specialization in electrical or communications engineering very desirable.

## SOURCE JOBS

Communications Inspection Engineer      Communications Engineer  
Communications Laboratory Technician

### PUBLIC COMMUNICATIONS OFFICER (7899)

Directs rehabilitation, operation, and maintenance of radio, telephone, or telegraph communication system in an occupied territory. Makes basic surveys of communication needs and determines necessary distribution of facilities and circuits to provide suitable service; maintains liaison with military, governmental and private agencies in radio, telephone, and telegraph communication, including cooperation in enforcement of control and censorship of communication services. May be responsible for proper functioning of the local postal service of occupied territory.

Must have knowledge of general engineering practices, and be familiar with installation, operation, and maintenance of communication equipment. Knowledge of foreign language desirable.

Must have extensive executive experience in handling communication systems and engineering problems, preferably in two or more fields, including electrical engineering.

Should be college graduate with specialization in electrical, radio, or communications engineering.

## SOURCE JOBS

District Manager, telephone or telegram      Rate Engineer, communications  
Communications Development Engineer      Commercial Communications Engineer

### HYDRAULIC ENGINEER (7901)

Plans, designs, and supervises the lay-out and construction of canals, irrigation systems, reservoirs, and water supply systems. Makes observations and keeps records of open streams, subterranean streams, or other bodies of water to gain knowledge of water resources or for flood control; locates water resources by geological studies and reconnaissance surveys; prepares geological area maps to illustrate drainage, watersheds, and underground water sources; determines best location for water reservoirs; plans for testing and distributing available water supply; plans specifications for storage structures and water transmission systems; supervises

field construction and prepares progress reports; supervises operation and maintenance of water distribution equipment; designs and supervises construction of canals, sluices, bridges, syphons, culverts, reservoirs, dams, aqueducts, and other water control projects.

Must have knowledge of water geology, hydraulics, hydrostatics, and chemical and bacteriological testing of water.

Military experience desirable.

Civilian experience in engineering water supply, irrigation, reclamation, sanitation, flood control, or erosion control projects essential.

College training in civil engineering with specialization in geology, hydraulic engineering, or hydrostatics very desirable.

#### SOURCE JOBS

Water Geologist	Reclamation Engineer
Civil Engineer	Irrigation Engineer
Hydraulic Engineer	Flood Engineer

#### SURVEYING ENGINEER (7914)

Supervises a survey unit engaged in field surveying. Supervises field survey parties on construction lay-out work; plans and directs topographic surveys including subsurface investigations; plans and directs hydrographic surveys such as gauging river and stream beds; supervises interpretation of aerial photomaps of assigned survey areas; transmits survey results and data to mapping units for use in preparation of topographic maps; prepares and maintains records of surveys; supervises maintenance of supplies and equipment; supervises training of unit and is responsible for its administration, supply, transportation, and security. May complete surveys relative to rehabilitating port and terminal facilities, rebuilding major utilities of destroyed cities, and construction of major water supply systems, railroads, and highways.

Must have technical knowledge of survey work such as determining exact location and measurements of points, elevations, lines, areas, and contours on the earth's surface; must be familiar with map making and reading; must have knowledge of aerial photomaps; must be able to supervise land, railroad, highway, topographic, and hydrographic surveyors, chairmen, rodmen, and topographic draftsmen.

Experience with military ground maps, aerial photos, photomaps, and military map symbols essential.

Civilian experience in engineering and surveying essential.

College training in civil engineering essential.

#### SOURCE JOBS

Civil Engineer	Instrument Man
Surveyor	Topographic Draftsman

#### TOPOGRAPHIC ENGINEER (7915)

Directs or supervises an organization composed of survey, photomapping, or map reproduction units and is responsible for providing map information adequate for tactical and strategical requirements. Supervises the execution of photogrammetric and drafting work for preparation and revision of maps, mosaics, overlays, and overprints; supervises reproduction by lithography, black and white process printing, and gelatin duplication; coordinates and supervises procurement, storage, and distribution of maps; supervises maintenance of supplies and equipment; supervises training of organization and is responsible for its administration, supply, transportation, and security. May supervise the conduct of surveys in the compilation of data necessary for map preparation. May establish and extend horizontal and vertical control forward and supply necessary ground mapping control for utilization by field artillery units.

Must have technical knowledge of survey work, such as determining exact locations and measurements of points, elevations, lines, areas, and contours on the earth's surface, photogrammetry and topographic drafting, and be skilled in photographic laboratory methods. Must be thoroughly familiar with photo-transferring and lithographic processes and have knowledge of operation and maintenance of lithographic equipment.

Military experience with specialized knowledge of military ground and aerial maps and military map symbols essential.

Civilian experience in engineering, surveying, and topographical drafting essential. Experience in lithographic and reproduction work desirable.

College training in civil engineering or drafting essential.

#### SOURCE JOBS

Civil Engineer	Draftsman, Map
Surveyor	Photogrammetrical Engineer
Lithographic Engineer	
Topographic Engineer	

## PHOTOMAPPING OFFICER (7916)

Supervises a photomapping unit in preparation and revision of military maps and charts from aerial mapping and charting photography. Supervises and participates in the execution of photogrammetric operations in construction and revision of maps and charts; supervises processing of photography; makes mathematical computations in connection with photogrammetrical work; uses stereoscopic and other photogrammetric plotting devices in map and chart construction from vertical and oblique photography; supervises topographic drafting, construction of projections, evaluation and plotting of control, construction of mosaics, preparation of overlays and overprints and establishes marginal information; supervises maintenance of supplies and equipment; prepares and maintains records concerning map or chart preparation; supervises training of unit and is responsible for supply, transportation, and security.

Must have practical working knowledge of photogrammetry, topographic drafting, and photographic laboratory methods; should be familiar in a general way with map reproduction methods.

When assigned to Corps of Engineer units authorized Multiplex plotting equipment must have thorough working knowledge of Multiplex equipment and the technique of its application.

When assigned to Army Air Forces charting units must have thorough working knowledge of aeronautical charting equipment and the technique of its application.

Military experience including either service school course in photogrammetry or experience in military ground and aerial photomapping essential.

Civilian experience in photogrammetry and topographic drafting or appropriate phases of civil engineering essential.

College training in photogrammetrical engineering, civil engineering, or the equivalent thereto in appropriate military or civilian experience essential.

## MAP REPRODUCTION OFFICER (7917)

Supervises reproduction unit in reproducing military maps, charts, mosaics, overlays, and overprints from copy prepared by photomapping unit. Supervises reproduction by lithography, black and white process printing, and gelatin duplication; maintains maps properly indexed and filed; prepares records of production and distribution; supervises maintenance

of supplies and equipment; supervises training of personnel.

Must have thorough knowledge of photo-transferring, color reproduction, and lithographic processes, and operation and maintenance of lithograph machinery such as offset printing presses.

Military experience with specialized knowledge of military ground and aerial maps and military map symbols essential.

Civilian experience in lithographic and reproduction work essential.

## SOURCE JOBS

Lithographer	Lithographic Pressman
Photo-transferrer	Lithographic Plate Maker
Photo-lithographer	

## ARCHITECTURAL ENGINEER (7920)

Plans and designs engineering features of buildings and similar structures such as location of buildings, drainage systems, structural features, and plumbing, heating, lighting, and other mechanical features; advises architectural draftsman in drawing of structural plans; advises construction superintendents and material suppliers pertaining to workmanship, methods of construction, and materials to be used; prepares records and reports covering completed, current, and proposed projects.

Must have thorough knowledge of construction design and specification preparation. Must be acquainted with construction materials, and be able to act in advisory capacity on construction matters to architects, draftsman, and construction superintendents.

Civilian experience in architectural engineering essential.

College training in civil, construction, or architectural engineering essential.

## SOURCE JOBS

Architect	Construction Engineer
Civil Engineer	Construction Contractor

## RAILWAY SHOP MAINTENANCE ENGINEER (7921)

Supervises the maintenance and repair of shop building and facilities. Establishes regulations for operation and maintenance of power-generating and other auxiliary equipment used in distributing mechanical or electrical power for operating shop machinery and equipment; supervises repair crews en-

gaged in renovation or repair of shop buildings and in dismantling, moving, installing, or repairing heavy machinery; periodically inspects plant buildings and facilities to ascertain condition and operating efficiency of equipment; initiates safety and fire prevention measures; supervises requisition and storage of fuel and maintains adequate supply of replacement parts and materials.

Must have thorough knowledge of operation, maintenance, and repair of power-generating equipment. Should be familiar with repair and maintenance of building construction including pipe fitting and electrical wiring. Must be able to supervise work of stationary engineers, generator and switchboard operators, electricians, pipe fitters, plumbers, bricklayers, and carpenters.

Civilian supervisory experience in plant maintenance essential.

#### SOURCE JOBS

Maintenance Mechanic	Millwright
Power Plant Engineer	Mechanical Foreman

#### RAILWAY CONSTRUCTION ENGINEER

(7922)

Supervises planning, designing, and construction of railways, railway buildings, railway bridges, and culverts. Supervises field units in reconnaissance and location surveys; reviews and coordinates plans prepared by subordinate units; makes field inspections to determine effectiveness of planning and adequacy of materials; maintains liaison with engineer supply officers concerning railway construction material; prepares periodic reports on construction progress; maintains records of available construction equipment for allocation to engineer units.

Must be skilled in design of railway systems and bridges and have knowledge of civil engineering practices.

Experience in railroad engineering essential.

College training in railway or civil engineering essential.

#### SOURCE JOBS

Superintendent of Railway Construction	Construction Engineer
Civil Engineer	Highway Engineer

#### PETROLEUM ENGINEER (7930)

Supervises engineering work concerned with the discovery, drilling, and production of oil. Assists in geological surveys of land to determine possibility of oil deposits; supervises erection of drilling rigs and

work of drilling to bring oil into production; plans and develops methods of control of flow of oil; supervises cleaning of oil wells and pumping systems; determines proper location of oil wells and relocation of destroyed and abandoned oil wells and fields; enforces prescribed safety rules and regulations; supervises maintenance of supplies and equipment; prepares and maintains production records; supervises training of personnel. May command an oil field rehabilitation regiment or subordinate units.

Must have thorough knowledge of methods of discovery, drilling, and production of oil and rehabilitation of inactive oil wells and fields. Knowledge of oil geology desirable.

Civilian experience in oil exploration work, drilling, production, and rehabilitation essential.

Must have college training in civil engineering, geology, or equivalent practical experience.

#### SOURCE JOBS

Petroleum Engineer	Oil Well Superintendent
Geologist, oil	

#### PIPE LINE ENGINEER (7932)

Directs or supervises the laying, construction, maintenance, and operation of a military pipe line system. Plans and lays out work for construction and operation personnel; directs and coordinates activities of personnel engaged in operation of earth-moving equipment, assembly and erection of storage tanks, installation and operation of pumping equipment, stringing, coupling, and laying of pipe lines, and other pipe line distribution activities; makes periodic inspections to determine adequacy of camouflage and compliance with established policies on prevention of and protection against fire and asphyxiation hazards; supervises the testing of completed pipe line system; controls and operates pipe line distribution of products and establishes and maintains pipe line patrol crews to protect systems against operational breakdowns; directs the maintenance of unit records and preparation of technical and administrative reports. May command an Engineer Petroleum Distribution Detachment or company and be responsible for its administration, technical and tactical training, transportation, supply, and security.

Must be thoroughly familiar with methods of constructing pipe lines. Should be familiar with special protective measures for certain soil conditions. Should be familiar with the employment of ditching and earth-moving equipment, centrifugal

and reciprocation pumps, and welding and machine shop equipment.

Broad civilian experience in the construction, maintenance, and repair or operation of pipe line distribution systems essential.

College training in civil engineering desirable.

#### SOURCE JOBS

Construction Engineer	Pipe Line Construction
Civil Engineer	Superintendent or
Highway Engineer	Foreman
	Oil Field Superintendent
	or Foreman

#### GEOLOGIST (7940)

Conducts geological surveys and investigations. Surveys land to determine topography and extent of various oil and mineral bearing strata; collects samples of rock and soil and determines extent, slope, and thickness of rock layers; determines areas and height of proposed construction by judging slope and load capacity of bedrock; drafts geological maps showing rock outcropping, and folds and breaks in the surface of the earth; makes recordings, maps, and diagrams of regions explored; supervises maintenance of supplies, instruments used in making geological tests and soundings and other equipment. May assist in conducting location surveys for water resources.

Civilian experience in the field of geology essential.

College training in geology and mineralogy essential.

#### SOURCE JOBS

Geologist	Mineralogist
Hydraulic Engineer	

#### SEWAGE DISPOSAL ENGINEER (7950)

Plans, designs, and supervises the lay-out, construction, and operation of a sewage disposal system. Supervises excavation for construction of filter beds and pipelines; directs the sinking and boring of shafts and tunnels, the laying of pipes, and the concreting of tunnel walls; supervises construction and operation of filter beds, pumping stations, and related sanitary facilities; directs installation and maintenance of drain pipes, sewers, plumbing, and sanitary fixtures. May perform similar duties in connection with water supply facilities.

Must have knowledge of sewage disposal plant

construction and operation and be able to direct workmen engaged in digging, shoring, pipe laying, concreting, bricklaying, rough carpentry, and related tasks.

Supervisory experience in construction, operation, and maintenance of sewage disposal plants, plumbing and sanitation facilities, and filter beds essential.

College training in civil or mechanical engineering very desirable.

#### SOURCE JOBS

Disposal Plant Superintendent	Construction Contractor, sewage plant
	Waterworks Engineer

#### WATERWORKS ENGINEER (7951)

Plans, designs, and supervises the lay-out and construction of water supply facilities. Supervises excavation for construction of reservoirs and pipe lines; directs the sinking and boring of shafts and tunnels, the laying of pipes, and the concreting of tunnel walls; supervises construction, operation, and maintenance of reservoirs, filtration plants, chlorination plants, pumping stations, water towers, and other related construction work; supervises test and treatment of boiler and drinking water. May perform similar duties in connection with sewage disposal.

Must have knowledge of pumping and filtration plant construction and operation, and be able to direct workmen engaged in digging, shoring, pipe laying, concreting, bricklaying, rough carpentry, and related tasks.

Supervisory experience in construction, operation, or maintenance of water supply facilities, and in piping, plumbing, and filtration operations essential.

College training in civil or mechanical engineering very desirable.

#### SOURCE JOBS

Waterworks Superintendent	Sewage Disposal Engineer
Construction Contractor, waterworks	

#### EROSION CONTROL ENGINEER (7953)

Classifies, designates, and maps soil erosion conditions and investigates and develops plans in soil erosion control work. Supervises reconnaissance surveys of soil types, slopes, and erosion hazards; plans for water control and drainage structures; su-

pervises vegetation work and maintenance and repair of related structures and sodded areas; makes field inspections to determine effectiveness of planning and adequacy of materials and equipment; makes cost estimates for labor and material for original work and maintenance.

Must have knowledge of surveying, drainage, soil analysis, and soil types. Must be familiar with agrostology and botany. Should be familiar with employment of farm power tools.

Experience in erosion control, soil conservation work, county agricultural work, civilian conservation crops erosion control, or highway control desirable.

College training in civil engineering, agricultural engineering, or agronomy desirable.

### SOURCE JOBS

County Agricultural Agent	Agronomist
Highway Maintenance Engineer	Soil Conservationist
	Agricultural Engineer

### SANITARY ENGINEER (7960)

Serves as technical consultant in matters pertaining to, and makes regular inspections of, water supplies, sewerage and sewage treatment, swimming pool operation, mosquito and rodent control, garbage and refuse disposal, and general environmental sanitation from the standpoint of sanitary engineering; determines remedies or desirable changes; reports findings and follows through on adopted policies and procedures.

Must have at least 4 years' actual experience in sanitary or public health engineering, including at least one of the following activities: water supply and treatment, sewage treatment, mosquito control, rodent control.

Must be a graduate of an accredited college or university, with specialization in civil, sanitary, or chemical engineering. Graduate degree may be substituted for one year of experience.

### AIRPORT ENGINEER (7970)

Directs or supervises design and construction of temporary and permanent landing fields and facilities at Army Air Forces stations, air bases, and air fields both domestic and overseas. Prepares specifications for and supervises construction of runways, taxiways, dispersal and parking areas, hangars, operations towers, and gasoline storage facilities;

inspects materials and workmanship of contractor and troop labor; insures compliance with construction specifications; maintains records and prepares reports pertaining to activities.

Must have knowledge of methods of laying various types of surfaces, such as asphalt and concrete. Should be thoroughly familiar with soil analysis, soil mechanics, drainage and sub-surface problems. Should be able to direct construction gangs engaged in digging, grading, hauling, compacting and surfacing by hand and by use of construction equipment. Should have working knowledge of construction of various types of buildings.

Military experience desirable.

Civilian experience in construction engineering, especially airport projects, and preparation of engineering plans essential.

Must have college training in civil engineering or equivalent practical experience.

### SOURCE JOBS

Civil Engineer	Construction Superintendent
Airport Engineer	Highway Construction Supervisor
Highway Engineer	

### DRAFTING AND REPRODUCTION OFFICER (7980)

Prepares working plans and detail drawings from rough or detailed sketches, or notes, and specifications of illustrations, sketches, charts, maps, mechanical drawings, and building plans. Supervises reproduction of these drawings by various methods, such as blueprinting, lithographing, photolithography, Van Dyke printing, black and white prints, Ozalid process, tracing cloth, and line etching; inspects various stages of work and finished drawings and reproductions, making necessary corrections; supervises personnel and is responsible for proper operation and maintenance of reproduction equipment.

Must have thorough knowledge of drafting techniques and procedures and be familiar with various reproduction processes.

Should be a trained draftsman, or college graduate with engineering training.

### SOURCE JOBS

Mechanical Draftsman	Illustrator
General Draftsman	Statistical Draftsman

## ECONOMICS OFFICER, MILITARY GOVERNMENT (8000)

Directs and supervises one or more civil economic activities for military government of an occupied territory. Supervises the agriculture, natural resources, industry, commerce, labor relations, price control, and rationing of the occupied territory; directs imports, exports, and internal trade; directs the operation of mines, oil and gas wells, lumbering, fisheries, water and power, manufacturing, and other industries; controls the management and supply of labor, including labor relations, organization and policies; supervises the supply and distribution of food, fuel, and other necessities; directs and supervises subordinate personnel.

Should possess tact, diplomacy, and understanding of social behavior. Must be expert in handling operations in field of specialization. Knowledge of foreign language desirable.

Several years executive experience with large public or private organization engaged in such fields as natural resources, agriculture, industry and commerce, labor, or price control and rationing essential.

Should have graduated from college or from a recognized professional school in field of specialization.

### SOURCE JOBS

Economist	Agriculture Specialist
Engineer	Labor Consultant
Geologist	Personnel Officer
Director, State Extension Service	Price Control Administrator
Executive, industrial or commercial establishment	Importer or Exporter

### LEGAL OFFICER (8101)

Examines and reviews legal aspects of facts in a case, and advises staff members concerning legal matters. Reviews legal provisions and recommends policies in accordance with statutes; writes legal opinions and draws up legal documents; assists in the drafting, negotiation, and termination of standard and special contracts; prepares opinions on questions of procurement regulations; performs legal duties pertaining to such matters as purchase and contract, property claims, maritime and international law, and allowances for family dependency; makes recommendations on claims of contracting agents and agencies; maintains liaison with Department of Justice and the Judge Advocate General's

Department regarding legal questions; supervises legal clerks in performance of duties. May serve on legal review committees.

Must be thoroughly familiar with public laws and Army regulations dealing with operations of particular unit to which assigned. Should have knowledge of contract and commercial law, and of statutes affecting War Department. Should have ability to organize and supervise a group of legal clerks.

Several years experience as practicing attorney essential. Civilian experience in governmental and commercial contract matters desirable.

Should have law degree and be a member of the bar.

### SOURCE JOBS

Lawyer	Contract Attorney
Claims Investigator	

### JUDGE ADVOCATE OR JUDGE ADVOCATE GENERAL (8103)

Furnishes advice and services on legal aspects of business, property, administrative, and financial operations under jurisdiction of Secretary of War. Prepares opinions on legal questions concerning such matters as claims, discipline, liabilities, rights, and privileges of military personnel, and activities of military installation; supervises the administration of military justice and reviews proceedings of military courts, commissions, and tribunals; advises on legal questions pertaining to claims arising out of maritime accidents and executed contracts, and on legal problems concerning civilians in occupied territory during hostilities or domestic disturbances. May furnish legal advice and render service to War Department on claims, governmental contracts, patents, copyrights, taxation, and rights of civilian employees. May prepare legal documents and digests for publications.

Must have comprehensive knowledge of legal principles and applications. Must be able to present statements of facts and law under formal judicial procedure.

Military experience including training in military law and Army administration essential.

Must have broad legal experience as practicing attorney including civil and criminal practice, and trial and office work.

Must be graduate of accredited law school and member of bar association.

## SOURCE JOBS

Attorney  
Jurist

Instructor in Law

### CIVIL AFFAIRS OFFICER, MILITARY GOVERNMENT (8104)

Directs and coordinates administration of civil affairs in an occupied territory. Advises commanding officer on matters pertaining to administration of civil affairs in occupied territory; coordinates activities of agencies established to control civil affairs, such as public works, communication, education, finance, welfare, agriculture, commerce, industry, public health, and police functions.

Must have considerable knowledge of military government and Army administration.

Military experience essential.

Considerable executive experience with public agency involving administrative, legal, and policy-making functions essential.

## SOURCE JOBS

International Law Ex-  
pert  
Jurist

Executive, governmental  
agency

### LEGAL OFFICER, MILITARY GOVERNMENT (8107)

Advises on legal problems of military government and questions of military law, international law, or the law of the country occupied. Organizes, supervises, and serves as member of military commissions and provost courts; considers claims of inhabitants of the foreign territory against the United States, and claims of the United States and its military and civilian personnel against the foreign territory or its inhabitants; performs other legal duties as may be necessary and supervises subordinate legal personnel.

Must be thoroughly familiar with United States military laws and the laws of war, civil and criminal court procedure, public prosecutions, and practice of international law; must be able to deal effectively with important Government and military officials. Knowledge of law and foreign language of particular country occupied very desirable.

Should have several years' experience with an important public or private agency, involving broad legal, administrative, and policy-making functions.

Should be law school graduate.

## SOURCE JOBS

Lawyer  
Jurist

International Law Expert  
Prosecuting Attorney

### LEGAL REVIEWER, CONTRACT (8110)

Makes legal analyses of contracts involving legal accuracy of specifications and conditions of contract or proposed settlements in renegotiation for elimination of excessive profits. Evaluates and analyzes financial position of contractor and adequacy of working capital; examines contracts, and renders opinions on propriety of various items, such as contract terms, income accounts and operating statements of contractor; prepares summary of relevant factors involved in contract negotiation or renegotiation; supervises form of reporting and instructs subordinates in form and manner of presenting information.

Should have broad knowledge of corporate legal work, corporate taxes and finance, and be able to analyze corporate and other financial statements in terms of earnings, operating results, and corporate structure.

Must have considerable experience in corporate legal work including review and preparation of contracts.

Must have college degree in law.

## SOURCE JOBS

Corporate Lawyer

Contract Attorney

### LEGAL ASSISTANCE OFFICER (8120)

Furnishes legal advice and assistance to military personnel at a post, camp, station, or other installation in the conduct of their personal affairs. Interviews military personnel requesting legal advice and advises on legal problems except those pertaining to courts martial; advises on and assists in writing wills, interpretation of insurance policies, and execution of other legal matters and papers; refers military personnel to civilian lawyers or legal aid organizations; collaborates and maintains liaison with civilian lawyers in organization and operation of legal assistance office.

Must have knowledge of law and should be familiar with administrative procedures.

Civilian experience in legal office essential.

Graduation from law school very desirable.

## SOURCE JOBS

Attorney

Special Investigator

## APPEALS OFFICER (8123)

Receives and reviews appeals of registrants regarding alleged improper classification by Selective Service. Examines registrants' applications for reclassification and determines whether registrant is properly classified; determines eligibility of members of religious sects for deferment and makes recommendations or renders decision for advice and guidance of local boards; advises State Selective Service director on appeals and legal matters and interprets Selective Service regulations. May prepare appeals for hardship and privation cases for forwarding to Presidential Appeals Board.

Must have thorough knowledge of Selective Service rules, regulations, and procedures, and be familiar with local board classification procedures.

Civilian legal experience desirable.

### SOURCE JOBS

Lawyer  
Jurist

Magistrate  
Legal Clerk

## CLAIMS OFFICER (8125)

Investigates accidents involving military personnel or equipment which may result in claims in favor of or against the United States Government. Covers all phases of investigation, including possible claims against the Government, line-of-duty status of injured military personnel, and need of disciplinary action; prepares report of investigation and recommends action. May estimate amount of damage or loss of property and effect settlement of claims. May advise on legal rights and obligations and render decisions on legality of claims.

Must be thoroughly familiar with Army regulations and court decisions pertaining to claims; must have knowledge of law and investigation procedures.

Legal and investigation experience very desirable.

Should have graduated from an accredited law school, or have equivalent practical experience.

### SOURCE JOBS

Special Investigator  
Insurance Claims  
Investigator

Lawyer  
Legal Clerk

## MARINE CASUALTY INVESTIGATING OFFICER (8127)

Investigates casualties arising out of marine

disasters. Makes investigation of damage to, loss, or destruction of vessels, cargoes, and waterfront facilities; investigates personal injury or death to military and civilian personnel; covers all phases of the casualty including possible claims against or in favor of the government, the line-of-duty status of military personnel, survey matters, the necessity of special reports of fires, explosions, storms, and other serious occurrences; determines disciplinary action or redress of injury to property; processes casualty claims; estimates amount of damage or loss and effects settlement; prepares and submits reports of investigation and recommends action. May administer hull, protection, and indemnity insurance coverage on War Department craft for marine peril and war risk against third party liability. May advise on legal rights and obligations associated with marine casualties. May render decisions on legality of claims.

Must be thoroughly familiar with Army Regulations and court decisions on water transportation, marine insurance, and claims.

Civilian experience in marine insurance, adjustment of marine claims, or admiralty law essential.

Should have graduated from an accredited law school including study in admiralty law, or have equivalent practical experience.

### SOURCE JOBS

Admiralty Lawyer  
Marine Casualty  
Investigator

Marine Claims Adjuster  
Marine Insurance  
Adjuster

## PATENT OFFICER (8130)

Secures patents from Government Patent Office for inventions, designs, improvements, and engineering developments. Writes specifications for patents; prepares, files, and prosecutes applications for patents, interferences, and appeals; supervises collection and preparation of evidence in patent infringement suits. May advise organization on rights and requirements of patents. May assist in the development of contracts. May render opinions on questions of patent and copyright law.

Civilian experience dealing with patents essential. Legal experience with engineering or manufacturing organizations very desirable.

Law degree very desirable.

### SOURCE JOBS

Patent Lawyer  
Patent Clerk

Patent Solicitor

METEOROLOGICAL PROJECT OFFICER  
(8204)

Supervises personnel engaged in the installation of weather forecasting stations. Advises on selection of and location of weather stations; arranges for procurement of equipment and construction materials; supervises construction and maintenance of weather stations.

Experience with weather department of commercial airlines or United States Weather Bureau very desirable.

College training with specialization in meteorology very desirable.

SOURCE JOBS

Meteorologist  
Weather Observer or Forecaster  
Meteorology Instructor

WEATHER ENGINEERING AND SURVEY OFFICER (8205)

Supervises maintenance and inspection of mechanical weather equipment and is responsible that equipment is in state of readiness for service. Supervises installation and maintenance of weather instruments and equipment; conducts field tests and experiments and recommends modifications and improvements; directs or supervises requisition, storage, maintenance, and issue of weather equipment and supplies; makes inspection periodically of organizational equipment and matériel and recommends proper disposition or repair of unserviceable items.

Must be a qualified weather equipment technician.

Should have college training in mechanical engineering or equivalent practical experience.

SOURCE JOBS

Mechanical Engineer  
Meteorological Inspector  
Electrical Engineer  
Meteorologist

METEOROLOGICAL RESEARCH ENGINEER (8210)

Supervises research in form of exhaustive investigation and experimentation on weather instruments and equipment to discover, interpret, and apply new facts concerning operating efficiency. Tests operating efficiency of weather instruments

and equipment; plans, designs, develops, and tests experimental weather instruments and equipment; interprets results of tests and experiments; prepares findings and makes recommendations for new equipment and improvement of current equipment based on tests and experiments; advises manufacturing engineers in design, methods of workmanship, and materials to be used.

Must possess analytical and creative ability; must be able to supervise extensive meteorological research programs.

Military experience with branch of service using weather instruments and equipment very desirable.

Civilian experience in design, development, and testing of meteorological equipment essential.

College training in meteorology or physics essential.

SOURCE JOBS

Electrical Engineer  
Meteorologist  
Mechanical Engineer  
Physicist

WEATHER OFFICER—PILOT (8218)

Makes or supervises the making of weather observations and forecasts according to latest principles and procedures and operates aircraft necessary to perform weather duties. Analyzes weather data in conformance with standard weather principles and procedures; instructs air crews in weather observation and interpretation and in proper use of weather service. May assist in briefing flights. May organize and establish weather stations. May command weather detachment or squadron and perform administrative duties necessary in effecting operation of weather service.

Must be a rated pilot.

Graduation in meteorology from a college or university approved by Army Air Forces or from Air Corps Technical School, or experience in weather forecasting in governmental or commercial weather service essential.

SOURCE JOBS

Meteorologist  
Weather Forecaster

WEATHER OFFICER (8219)

Makes or supervises the making of weather observations and forecasts according to latest principles and procedures. Analyzes weather data in conformance with standard weather principles and procedures; prepares climatological studies indi-

cating probability of occurrence of specific weather phenomena. May instruct air crews in weather observation and interpretation and in proper use of weather service. May assist in briefing flights. May organize and establish weather stations. May command weather detachment or squadron and perform administrative duties necessary in affecting operation of weather service.

Graduation in meteorology from a college or university approved by Army Air Forces or from Air Corps Technical School, or experience in weather forecasting in governmental or commercial weather service essential.

### SOURCE JOBS

Meteorologist                      Weather Forecaster

### PHOTOGRAPHIC UNIT COMMANDER (8500)

Commands ground photographic unit and is responsible for its administration, training, and tactical employment. Directs supply, equipment, transportation, and security activities of unit; directs technical and tactical employment of unit in operations with combat troops; supervises taking of still or motion pictures of such subjects as equipment, friendly or enemy installations, training subjects, and combat operations. May direct processing of still or motion pictures. May assist in photographic censorship.

Must be familiar with technical problems peculiar to military photographic operations.

Military experience essential.

Experience in administrative or technical supervision of news or commercial photographic organization very desirable.

### SOURCE JOBS

Commercial                      News Photographer  
Photographer                      Photographic Darkroom  
Motion Picture                      Man  
Cameraman

### AERIAL PHOTOGRAPHIC OFFICER (8502)

Directs or supervises aerial photographers and laboratory technicians of the photographic section of an Army Air Forces bombardment, reconnaissance, or other unit. Supervises taking and processing of ground and aerial photographs; supervises training and instruction of section personnel

in operation of aerial and ground cameras, use of darkroom equipment, and construction of aerial photographic mosaics; procures, stores, maintains, and inspects cameras, films, and other photographic equipment and supplies; supervises installation of cameras and photographic equipment in aircraft; supervises work of unit photographic laboratory, seeing that films and prints are correctly processed and that composite photographs are properly prepared; advises commander on adequacy, capacity, and operation of photographic equipment and related matters. May take aerial photographs.

Must be familiar with methods of taking and processing ground and aerial photographs; construction of composite aerial photographs; operation and use of camera and other photographic equipment and supplies; and security measures in connection with photographic operations. Should be qualified for flying duty.

Completion of Air Corps Technical School courses in aerial photography and photo-interpretation desirable.

### SOURCE JOBS

Aerial Photographer                      News Photographer  
Phototopographer                      Photographic Laboratory  
Commercial                                  Technician  
Photographer

### PHOTO INTERPRETER (8503)

Identifies, analyzes, and tabulates information from photographs. Examines aerial photographs stereoscopically using the photointerpreter and various other optical instruments as interpretation aids; determines location of enemy military installations, vital industries, rail and shipping centers, storage facilities and dumps, strength and position of enemy personnel, equipment and defense installations; computes bomb fall plots and bomb damage assessment reports; identifies type and number of enemy airfields, aircraft, naval equipment and ships, and antiaircraft and artillery positions; compares new photographic coverage with previous coverage of same location to detect changes in enemy installations and industries, camouflaged areas, dummies and decoys, writes immediate and detailed reports and summaries of interpretations; prepares sketches, diagrams, statistical charts, and specialized research reports, as required, related to intelligence information gleaned from photographs; coordinates photo-interpretation activities with related intelligence work. When as-

signed to AAF may have staff responsibility for the preparation of pertinent camouflage plans contributing to local security.

Must be able to detect slight variations in appearance of vegetation and contour and to identify geographical features and works of man in aerial photographs. Must have thorough knowledge of military installations, principles of identification, map reading, and tactical employment of ground troops. For assignment to AAF should have sufficient knowledge of camouflage to prepare deception plans and supervise their execution.

Civilian experience in aerial photography, civil engineering, geology, cartography, geography, surveying, forestry, soil conservation, photogrammetry, architecture, landscape architecture, or in a natural science, such as botany or zoology, very desirable.

College education with a major in engineering, geology, economic geography, architecture, or forestry, very desirable.

#### PHOTOGRAPHY DIRECTOR (8511)

Directs photographic unit in production of still and motion-picture films, film strips, and training films for training, informational, and recreational purposes. Directs photographing of scenes and episodes; supervises operation and maintenance of projection room and photographic facilities and equipment; assists in planning stage settings and inspects work of stage scenery designers; directs reviewing and editing of films; maintains liaison with governmental agencies and civilian organizations to aid in development of new types of pictures. May direct photographic productions for propaganda purposes or for use in orientation programs.

Must have knowledge of principles and techniques of still and action photography and be able to tell a story with motion pictures. Should be able to supervise repair and maintenance of photographic equipment.

Military experience essential. Must be familiar with tactics and techniques of motion picture groups in military service.

Production experience on feature productions or short subjects essential.

Should have training in photography or the equivalent in practical experience.

#### SOURCE JOBS

Motion Picture Director	Staff Cameraman Motion Picture Producer
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#### MOTION PICTURE LABORATORY SUPERVISOR (8515)

Supervises operations of motion picture processing laboratory. Coordinates film processing operations and inspects laboratory equipment; supervises personnel engaged in film processing and testing; inspects motion picture films by projection to locate defects and to check density.

Must understand use and application of principles, techniques, machinery, processes, and standards involved in processing of motion picture films.

Supervisory experience in motion picture laboratories or film manufacturing, testing, or research organizations essential.

#### SOURCE JOBS

Film Laboratory Supervisor	Photographic Film Manufacturing Supervisor
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#### MOTION PICTURE EDITOR (8516)

Supervises editing of motion pictures. Previews and directs the previewing of films to check on continuity of theme, effectiveness of action or dialogue, accuracy of historical events, or other references; directs the cutting, titling, rearranging, and placing of sound effects in scenes and episodes, and reviews films for final effectiveness; supervises personnel in administrative and technical phases of editing, and in maintenance of files and records of films and related information.

Must be able to review and evaluate scenes and episodes of military significance for purpose of achieving appropriate and effective continuity of theme, action, and dialogue. Should be familiar with sound recording, music recording, and negative cutting techniques.

Administrative experience in editing, cutting, and titling motion picture films essential.

Should have college education with specialization in journalism or photography.

#### SOURCE JOBS

Film Editor	Motion Picture Reviewer or Cutter
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#### SOUND RECORDING OFFICER (8517)

Directs or supervises technical activities of a sound recording, sound equipment maintenance unit, or similar organization. May operate single

or double sound motion-picture recorder on aerial or ground missions.

Should know how to operate single or double sound motion picture recorder. Must be familiar with tactics and techniques of motion picture unit in military service.

Military experience essential. Service in sound department of a training film unit desirable.

Experience in the design, research, operation, or maintenance of sound recording equipment essential.

Training in electrical engineering with specialization in motion picture sound recording technique and equipment essential.

#### SOURCE JOBS

Sound Recording Engineer	Sound Recording Technician
Electrical Engineer	

#### ANIMATION PHOTOGRAPHY DIRECTOR (8518)

Directs or supervises animation section of a photographic laboratory or training film production unit. Obtains ideas for cartoons from news items and directs their presentation; sketches cartoons and directs and instructs personnel in drawing cartoons and preparing animated charts, maps, and working drawings; directs photographic operations in transforming cartoons into motion pictures; supervises labeling, coloring, and sound effects for animation motion pictures; coordinates activities concerned with sketching and photographing cartoons; issues requisitions for art supplies and photographic equipment.

Must have thorough understanding of principles and techniques of animation.

Military experience very desirable; should include supervisory experience with major unit of the Army's training film program.

Experience in planning, supervising, and executing animation motion pictures essential. Should have participated in the production or direction of at least five one-reel animated cartoons or similar subjects produced by a recognized agency.

#### SOURCE JOBS

Animation Cartoonist	Animation Director
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#### FILM STRIP PRODUCTION OFFICER (8519)

Directs a film strip production group. Super-

vises the preparation of film slide material; directs operation and maintenance of film slide equipment; requisitions photographic materials and equipment.

Must know techniques, methods, physical requirements, and equipment used in production of film slides.

Civilian experience in production of film strips or animated motion pictures essential.

#### SOURCE JOBS

Animation Studio Artist	Slide and Film Strip Producer
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#### MOTION PICTURE COORDINATING OFFICER (8520)

Coordinates physical production sections of a motion picture production unit. Integrates electrical, stage, sound, cutting, and property functions and activities; expedites work of section or sections in order to meet requirements and rush assignments; plans and controls technical aspects of production in order to achieve greater efficiency.

Knowledge of functioning, relationship and operation of editing, camera, electrical, stage, property, and sound departments and the ability to coordinate work of these departments essential.

Military experience desirable. Must be familiar with tactics and techniques of a motion-picture group in military service.

Considerable experience in management of studio or in producing with a large picture production organization essential.

#### SOURCE JOBS

Studio Manager	Motion Picture Producer
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#### SCENARIO WRITER (8521)

Develops ideas for motion picture stories, receives synopses, and writes or directs writing of scripts. Writes scripts in skeleton form; describes series of action incidents in story devoid of conversation and description; consults with motion picture production and scenario editor regarding type of story to be written; maintains liaison with arms and services in order to aid in planning production of training films and other military motion pictures.

Military experience essential. Must be familiar with tactics and techniques of motion picture production in military service.

Should have civilian experience in preparation of

motion-picture shooting scripts and in writing scenario for feature films or short subjects.

### SOURCE JOBS

Scenario Writer                      Film Reviewer  
Scenario Editor

#### FILM DISTRIBUTION OFFICER (8522)

Supervises and directs the distribution of motion and still pictures. Maintains film library, film storage unit, or film exchange; procures and distributes photographs, film strips, training films, and motion and still pictures; estimates quantities of films required for distribution; receives, edits, and approves requisitions for film materials; maintains liaison with educational, recreational, and welfare officers and governmental agencies with reference to training films and motion or still picture requirements; controls operations relating to storage and packing of photographic materials and equipment; prescribes handling methods to insure security of film material; maintains records and files, and furnishes data relating to distribution, inventories, weights, volumes, and space requirements.

Must be able to direct operations of film distribution and circulation. Should be familiar with tactics and techniques of photographic units in military service.

Military experience required. Must be familiar with distribution procedures related to still or motion pictures.

Should have civilian experience with film exchange or distribution agency.

### SOURCE JOBS

Motion Picture                      Motion Picture Distributor  
Librarian

#### FOREIGN FILM OFFICER (8525)

Supervises production of information and entertainment pictures for distribution in foreign countries. Directs translation and adaptation of domestic films into foreign languages; coordinates the editing and review of combat films required by War Department or other governmental agencies; supervises translation activities of civilian experts; contacts various branches to coordinate training activities, and personnel, supply, and equipment requirements for foreign film units. May supervise translation of foreign films into English.

Civilian experience in motion picture production, or language instruction and translation very desirable.

College training with specialization in modern languages essential.

### SOURCE JOBS

Motion Picture Producer              Instructor, Modern  
Motion Picture Director              Languages  
Motion Picture Writer                  Translator

#### MOTION-PICTURE CAMERAMAN (8530)

Directs photographing of scenes with sound motion-picture cameras. Supervises setting up of camera, determination of lens apertures, and selection of lens; studies scale drawing of stage sets and directs lighting; surveys and inspects general effect of complete stage set and orders changes in lighting to enhance objects; supervises manipulation of camera to follow scene of action; arranges for repair and storage of cameras. May serve as aerial or ground motion-picture cameraman in theaters of operation.

Must know principles and techniques of motion-picture photography; operation, maintenance, and use of motion-picture camera equipment; motion-picture lighting equipment; manipulation of mechanical devices to produce special effects.

Should have considerable experience in motion-picture photography or in special effects and process-screen camera work.

### SOURCE JOBS

Motion-Picture Cameraman              Newsreel  
Process-Screen Cameraman              Cameraman

#### MOTION-PICTURE PRODUCER (8537)

Supervises preparation of motion-picture films to be used for information, training, orientation, and entertainment of military personnel and for historical record. Directs preparation of initial plans, selection of suitable locations, shooting of scripts, and assembling of essential information and historical data; studies and analyzes significance of subjects for use in military training and informational films; selects topics and issues of special interest or importance as themes or ideas for scenarios, such as troop training, oversea action, matériel production, and civilian mobilization; arranges for field photographic work; develops educational film programs and supervises selection

of commercial educational films for use in camps; reviews and criticizes final film prior to release; supervises maintenance of files, records, and reference material.

Should have thorough knowledge of techniques used to establish dramatic interest, continuity of theme, and sustained audience appeal.

Military experience desirable. Must be able to select and evaluate subjects of military significance for adaptation into effective story material.

Must have experience in creation and preparation of motion-picture scenarios or scripts and production of motion pictures.

Technical school training in motion-picture photography, or college training in journalism or dramatics very desirable.

### SOURCE JOBS

Film Director	Motion-Picture Technician
Scenario Writer	Motion-Picture Cameraman
Script Writer	

### STILL PHOTOGRAPHY OFFICER (8540)

Supervises the work of photographic personnel of a still picture unit engaged in taking, developing, and finishing still pictures. Supervises the preparation of still pictures films for exhibition in this country or overseas; directs preparation of plans and scripts and assembling of information; arranges for taking of still pictures; reviews and criticizes final film prior to release; maintains liaison with other military units and civilian organizations to coordinate training and educational film programs.

Military experience essential. Must be trained in tactics and techniques of still photography in military service.

Must have experience in news, commercial, or portrait photography, or in commercial finishing.

### SOURCE JOBS

News Photographer	Photography Instructor
Commercial Photographer	Commercial Film
Portrait Photographer	Finisher

### MICROFILM PHOTOGRAPHY OFFICER (8545)

Supervises and administers operation of a micro-filming unit. Directs the photographing of important documents on small film for permanent compact records to be used in shipping film to mili-

tary installations, particularly to oversea units; supervises and instructs personnel in V-mail processing methods.

Military experience, including training in V-mail or other microfilm processing, very desirable.

Civilian experience in operating continuous film or paper processing equipment and in photographing material on strip film very desirable.

### SOURCE JOBS

Microfilm Photographer	Photographic Laboratory
Photostat Operator	Technician

### MEDICAL PHOTOGRAPHER (8547)

Obtains and photographs film strips, still pictures, and colored slides of medical subjects to be used for illustration or for medical training purposes. Photographs medical subjects such as wounds, medical specimens, laboratory procedures, and surgical operation techniques; supervises photographing of new devices, techniques, and procedures as permanent record of medical and surgical developments. May operate motion-picture equipment.

Must have experience in medical photography or medical illustration.

College training with specialization in chemical, physical, or biological sciences essential.

### SOURCE JOBS

Commercial Photographer	Motion-Picture
Portrait Photographer	Cameraman
Photolithographer	

### MOTION PICTURE UNIT MANAGER (8550)

Supervises and coordinates administrative operations of motion picture unit. Secures equipment, personnel, and props for production; arranges for transportation of crew, actor personnel, and equipment; requisitions materials and equipment; takes and verifies inventories; directs maintenance of building and machinery; arranges for storage of camera equipment and film in field and on location; keeps financial records and makes reports of income and expenses; arranges for quarters and mess for personnel and performs administrative duties to insure smooth operation of unit.

Civilian managerial experience with motion-picture company essential.

## SOURCE JOBS

Studio or Stage Manager      Film Director  
Motion Picture Producer

### PUBLIC SAFETY OFFICER (9000)

Directs and supervises one or more public safety activities in an occupied territory. Directs maintenance of order and prevention of crime among the civilian population by use of civilian police and prisons and, in consultation with Provost Marshal, the use of military police; maintains control of traffic in liquor and narcotics and circulation of civilians; consults with military intelligence and in connection with censorship policies, orders, and regulations; exercises control or supervision of fire departments; supervises subordinate personnel in the performance of duties.

Should possess tact, diplomacy, and understanding of social behavior. Knowledge of foreign language very desirable.

Should have several years' experience as a head or principal officer of a governmental police or fire system, forestry or national park protection system, civilian defense organization, large prison, or probation or parole department.

Graduation from college desirable.

## SOURCE JOBS

Chief or principal officer      Counterfeit Expert  
of police, fire, prison,      Narcotics Expert  
probation, civilian de-  
fense, or national parks  
department

### POSTAL INSPECTOR (9010)

Inspects or supervises inspections of Army postal operations. Prepares and issues directives to personnel responsible for proper distribution of mail; investigates complaints, bottlenecks, and other problems affecting efficient operation of postal service; conducts special inspections of Army post office at posts, camps, and stations, and submits reports of findings and recommendations.

Should be familiar with Army organization and administration.

Considerable civilian supervisory experience in the United States Postal Service essential.

### INFORMATION OFFICER (9020)

Directs and supervises activities pertaining to col-

lection of information regarding civilian Americans in enemy countries, enemy aliens under surveillance, and American or enemy prisoners of war. Maintains complete records of American civilian and military personnel in hands of the enemy, or of enemy aliens and prisoners of war; supervises the preparation of index and correspondence files for each and replies to and follows up inquiries concerning interned personnel; prepares and dispatches lists of enemy prisoners of war to International Red Cross, United States Government agencies, and other protecting powers; coordinates activities and maintains liaison with State Department, The Adjutant General's Office, Navy Department, and Red Cross; maintains location maps of prisoner of war internment camps and hospitals; directs forwarding of mail from and to American prisoners of war.

Must be familiar with Red Cross and Geneva Conventions regulations regarding internees and prisoners of war; should have legal and administrative ability to handle responsible duties requiring tact, resourcefulness, and initiative.

College education desirable; should have special training in law or business administration.

## SOURCE JOBS

Lawyer      Administrative Officer  
Personnel Manager      Office Manager  
Chief Clerk

### PROVOST MARSHAL (9100)

As special staff officer, advises and assists commanding officer in the supervision and operation of security measures, police matters, disciplinary regulations, and emergency plans. Prepares plans, policies, and regulations pertaining to organization, training, operation, and equipment of guard and police personnel; establishes and maintains a system of records and reports necessary for police purposes such as identification of personnel and maintenance of information centers; supervises investigations of accidents and crimes occurring on military property or involving military personnel; prepares directives relative to traffic control, security of military personnel, weapons and critical equipment, registration of private property and conduct of personnel; cooperates with local law enforcement agencies to control conduct of military personnel; supervises apprehension and disposition of absentees; conducts authorized inspections of guard and police units and activities; formulates standing operating procedures for emergency assistance in con-

nection with disaster relief work, fires, airplane crashes or other disasters. May direct investigations of persons applying for employment in military establishments. May direct collection and custody of enemy aliens and prisoners of war, and operation of camps and inclosures. May supervise protection of vital installations against sabotage and fifth column activities. May arrange for reception of distinguished visitors.

Must have executive ability and knowledge of Army administrative work and military police regulations and procedures.

Military experience essential with graduation from Provost Marshal General School desirable.

Civilian experience should include specialization in law enforcement and investigation, or in police administration.

College training desirable, with courses leading to a law degree preferred.

#### PROVOST MARSHAL, FIELD (9101)

Directs activities of military police units in the enforcement of military laws and regulations, protection of public works, prevention and investigation of crime, control of vehicular traffic, and collection and custody of prisoners, enemy aliens, and stragglers. Provides for the protection of designated establishments, public works, and localities of special importance from pillage, sabotage, and damage; arranges for proper protection of troops and civilian populations against violence; assists civil authorities in the enforcement of laws and prevention of crime; supervises the evacuation and repatriation of civilian population; assists in the enforcement of gas defense, anti-aircraft measures, blackouts, and other security and secrecy measures, relieves combat organizations of custody of prisoners of war, and operates prisoner of war system, performs administrative duties required for general welfare and discipline of troops under command.

Must be thoroughly familiar with all laws, rules, and regulations that are to be enforced, including pertinent portions of Articles of War, Army Regulations, rules of land warfare, and methods of criminal investigations. Should know measures of individual protection against all kinds of violence, and of crowd control and suppression of disturbances. Should possess good knowledge of staff and command functions.

Military experience essential, including graduation from Provost Marshal General School. Completion of Command and General Staff School desirable.

Civilian administrative or executive experience in police administration, traffic control, or legal work desirable.

Should be college graduate or have equivalent in training and experience.

#### MILITARY POLICE OFFICER (9110)

Directs and supervises military police in the protection of property and maintenance of good order and discipline at a post, camp, station, or other military installation. Supervises enforcement of laws, rules, and regulations pertaining to the maintenance of order and discipline, and prevention and investigation of crimes and disorders; supervises the performance of interior guard duty as directed; provides for adequate traffic control in military area and controls the movement of personnel to and from military area; performs necessary administrative duties as required.

May assist civil police in adjacent areas by maintaining order among military personnel, taking into custody deserters and other offenders, providing information to military personnel and civilians, and assisting in traffic control when troop movements are in progress.

Must possess working knowledge of military police organization, methods, techniques, equipment, and weapons; must possess force, initiative, resourcefulness, tact, and good appearance.

Military experience essential, including graduation from Military Police School.

Administrative or executive experience in traffic control, police administration, or legal work desirable.

#### SOURCE JOBS

Policeman	Detective
Guard	Investigator

#### INTERNMENT CAMP COMMANDER (9120)

Directs and supervises security and management of an internment camp established for the custody of interned enemy aliens or prisoners of war. Arranges for and supervises interior security of camp, assigning guard units and providing essential inclosures; inspects general maintenance of facilities such as mess halls, barracks, and recreation halls; provides for care, treatment, discipline, recreation, and organization of internees, and issues regulations consistent with well-established principles of security, efficiency, discipline, and humanity; furnishes

uniforms, supplies and equipment, medical treatment, and proper sanitation facilities, and is directly responsible for all stores required for post and police purposes; maintains comprehensive records and files on all internees and provides information when requested by a governmental agency; conducts inspections to observe compliance with directives and proper policing of area.

Must be familiar with rules of land warfare, terms of Geneva and Red Cross Conventions, and other regulations pertaining to the management of prisoners of war and enemy aliens. Must have good executive and administrative ability to handle problems of a diversified nature.

Military police administrative experience essential.

Civilian prison or police administrative experience desirable.

College education desirable.

#### SOURCE JOBS

Prison Officer                      Warden  
Police Commissioner

*Connections*  
~~PRISON OFFICER (9121)~~

~~Directs or supervises security, management, and rehabilitation of prisoners under his jurisdiction. Provides for the safety and defense of prison area and supervises instruction and training of assigned military personnel; enforces laws and regulations pertaining to welfare, discipline, conduct, security, and duties of military personnel and prisoners, and institutes corrective measures for irregularities; conducts inspections of prison area to note proper maintenance of quarters and observation of rules and regulations; requisitions and is responsible for supplies needed for police purposes. May supervise vocational training facilities attached to post, such as farms, ranches, gardens, and industrial plants.~~

~~Military experience essential commensurate with grade, experience, and responsibilities of the duties performed.~~

~~Experience in police or prison work in a large community desirable.~~

#### SOURCE JOBS

Warden                                      Police Commissioner  
Prison Officer

ESCORT GUARD UNIT COMMANDER  
(9122)

Directs and supervises activities of military per-

sonnel assigned responsibility of delivery of prisoners of war to and confinement in an internment camp. Supervises instruction and training of units in the proper handling of prisoners of war; provides for adequate guard and administrative personnel for the prisoner-of-war company; collects prisoners of war at collecting or transfer points and conducts them to designated points for examination or internment; performs other administrative duties as subscribed by commanding officer.

Must be thoroughly familiar with rules of land warfare and other regulations pertaining to the treatment of prisoners of war.

Military experience essential.

#### SOURCE JOBS

Prison Guard                              Detective  
Policeman

#### INTERNEE TRANSFER AND MOVEMENT OFFICER (9124)

Directs and supervises exchange of prisoners of war and enemy aliens. Prepares and issues directives pertaining to transfer of prisoners of war and civilian internees; coordinates and effects exchange of prisoners of war and effects transfer of enemy aliens in Army custody for repatriation; coordinates movements of individuals through agencies concerned; handles correspondence and inquiries relative to transfer and movement of prisoners of war and aliens.

Should be familiar with Red Cross and Geneva Conventions regulations regarding internees and prisoners of war. Should have legal and administrative ability.

Military experience desirable.

Civilian police administrative experience desirable.

College education desirable.

#### SOURCE JOBS

Police Officer  
*Confinement* Officer (9125) (See C2)  
PAROLE OFFICER (9126)

Investigates applications for parole submitted by prisoners eligible for parole. Interviews prisoners and persons relative to applications; examines all pertinent data bearing on case and determines whether requirements of parole are met; forwards recommendations for action through channels for consideration by Secretary of War; maintains all records pertaining to parole of general prisoners.

Must be able to analyze and evaluate character,

and demonstrate ability to judge reliability of prisoners to meet requirements of parole.

Should have considerable experience in welfare or parole work.

Should be college graduate with specialization in social welfare.

### SOURCE JOBS

Parole Officer  
Welfare Officer

Lawyer

### FACILITIES PROTECTION OFFICER (9210)

Prepares and coordinates general policies and instructions relative to protection of war facilities and matériel. Inspects industrial plants and makes recommendations for prevention of avoidable interruption of the production and delivery of munitions caused by hazards inherent in manufacturing transportation, and storage, such as fire, accident, sabotage, and subversive activities; analyzes and reviews plans for plant protection and arranges for passive defense measures of war facilities; designates plants that may continue production during blackouts; prepares directives on procedures and issues special instructions; assigns inspection priority ratings to facilities in order to expedite delivery of essential protective equipment and supplies; establishes security of classified documents and materials; maintains liaison with supply arms and services and other governmental agencies concerned with similar problems; answers inquiries pertaining to allocation of plants, completion and transmission of reports, clarification of instructions and procedures, and other special problems. May direct internal security measures for power utilities and communication transportation, and water supply systems.

Must have thorough knowledge of War Department policy and operations pertaining to protection of war facilities and matériel. Must be familiar with industrial processes and hazards, problems of production, and management practices.

Military administrative experience very desirable.

Considerable administrative and industrial engineering inspectional experience essential, varying with the degree of responsibility of the position. Must have specialized experience in inspectional, consultant, or advisory service to manufacturers in plant protection or the safeguarding of manufacturing processes against losses, delays, or avoidable interruptions to production.

College graduation with training in engineering or equivalent in practical experience very desirable.

### SOURCE JOBS

Industrial Engineer

Industrial Fire Protection  
Engineer

Property Insurance

Inspector

Safety Engineer

### SECURITY OFFICER, BUILDING AND EQUIPMENT (9220)

Plans for proper security of buildings, equipment, and supplies, and supervises military and civilian guards charged with the protection of military installations or areas. Investigates all matters concerning security such as fire hazards, air raid precautions, identification and pass systems, and tactical and defense measures against sabotage; advises superior officers on all matters affecting security; coordinates security measures with other governmental agencies; directs and supervises employment of all guards, fire marshals, and air raid wardens, and arranges for tactical and other defense measures. May be responsible for security of classified material.

Military experience in command and administration essential.

Should have civilian experience in law enforcement.

Degree in law desirable.

### SOURCE JOBS

Police Inspector

Police Administrator

Fire Marshal

Prosecuting Attorney

Lawyer

### AIR RAID OFFICER (9221)

Recommends and directs installation of air raid facilities and equipment. Investigates available resources and advises as to appropriate security measures; determines minimum protective requirements such as shelter, water, light, and sanitary installations, and confers with construction engineers and chemical officers regarding measures to be adopted; examines designs, plans, and installations for long range programs and makes necessary recommendations; maintains liaison with Officer of Civilian Defense and with Red Cross.

Should have administrative ability; must be familiar with air raid precautionary measures and with bombing experiences of other countries.

Should have administrative or executive experience.

### SOURCE JOBS

Bomb Squad Detective	Fire Inspector
Fire Marshal	Air Raid Director

### BOMB DISPOSAL OFFICER (9224)

Commands a bomb disposal unit in the removal of unexploded bombs and shells. Makes reconnaissance to determine action necessary to clear an area of unexploded bombs or ammunitions; diagnoses type of unexploded bomb and determines method of handling to avoid or minimize damage; trains and instructs unit in use and maintenance of excavating, rigging, and bomb disposal equipment; supervises tactical training of unit and is responsible for its administration, supply, transportation, equipment, and security. May supervise dissemination of bomb disposal information to all military and civilian personnel by means of lectures and films. May maintain liaison with local agencies for establishing procedures and methods on protection and bomb removal measures in case of air raids or attempts at sabotage bombing.

Must be thoroughly familiar with explosives, projectiles, bombs, mines, booby traps, and fuzes of allied and enemy manufacture.

Civilian experience in maintenance and repair of precision machinery highly desirable.

Should have 1 or 2 years college training in technical subjects.

### SOURCE JOBS

Watchmaker	Machinist
Instrument Repairman	Gunsmith

### CIVIL AFFAIRS OFFICER, INTERNAL SECURITY (9226)

Directs and coordinates civil affairs activities for the command. Advises commanding officer on matters pertaining to civil affairs administration; formulates plans and policies concerning the designation of prohibited and restricted zones, such as geographical areas, military installations, and war plants; issues proclamations, restrictions, orders, announcements, and information pertaining to civil defense measures, and supervises enforcement by service commands; establishes policies regarding dimout, blackout, and air raid precaution measures; investigates loyalty of individuals suspected of subversive activities and recommends exclusion of po-

tentially dangerous persons; establishes policy concerning liquidation and management of properties belonging to excludées; maintains liaison with representatives of Federal agencies to facilitate formulation and administration of policies.

Should be thoroughly familiar with regulations pertaining to internal security of important areas.

Military experience essential.

Civilian, legal, or general engineering experience desirable.

Should have college education with training in law or general engineering courses.

### SOURCE JOBS

Attorney	Civil Engineer
Electrical Engineer	

### PERSONNEL SECURITY OFFICER

(9231)

Directs or supervises internal security program pertaining to determination of loyalty of civilians employed in essential war facilities and War Department. Formulates policies and issues directives concerning loyalty investigations and determinations; grants or denies consent for employment of aliens on classified or aeronautical contracts; recommends suspension of alleged subversives from employment; processes information on aliens and supervises forwarding of identification data and fingerprint cards to Federal Bureau of Investigation; certifies appeals to established review boards made by alleged subversives suspended from employment; trains inspectors in matters of policy and procedure; reviews inspection reports and institutes action on recommendations. May supervise counterintelligence functions including investigations of disaffection, espionage, sabotage, treason, sedition, or other subversive activities. May supervise fingerprinting of civilian personnel. May supervise military and civilian guards.

Should be familiar with identification registration and with practices of falsifying or forging identification devices. Should have thorough knowledge of War Department policy and procedure pertaining to protection of war facilities and matériel. Should be familiar with laws pertaining to espionage, treason, and sedition. Should be familiar with methods employed by saboteurs. Must possess initiative and tact.

Military administrative experience very desirable.

Civilian legal, investigation or public relations work desirable.

## SOURCE JOBS

Special Investigator      Police Administrator  
Lawyer                      Personnel Administrator  
Public Relations Man

## COMMUNICATIONS SECURITY OFFICER (9240)

Directs the maintenance of security for military messages transmitted through Army or commercial cable facilities. Directs all activities essential to the continuation of physical cryptographic and transmission security; directs the inspection of transmission facilities to assure protection against fire and sabotage; directs the employment of security measures for production, distribution, accounting, storage and handling of cryptographic systems and equipment; directs the employment of security measures for distributing, handling, and filing of plain-text copies of cryptograms; determines operating practices and discipline, priorities for messages, classification of facilities and messages; provides for review of critical communication information prior to publication; establishes plan for detection of spurious messages, detection and elimination of insecure communication practices, and prevention of use of facilities by enemy agents; maintains liaison with Army Communications Service Chief Engineer, Provost Marshal General, Bureau of Public Relations, Joint Security Control, and Security and Intelligence Branch to coordinate joint security activities. When assigned to a service command acts as Executive Officer of the Service Command Traffic Security Board.

Military experience including a knowledge of Army administration and organization very desirable.

Civilian managerial experience with a commercial wire and cable communication carrier including the technical aspects of engineering and operation essential.

## FLYING SAFETY OFFICER (9260)

Conducts aircraft accident investigations and makes safety inspections and accident prevention surveys. Investigates aircraft accidents to determine their probable cause; maintains continuous study of all Army Air Forces installations within designated area and initiates remedial action to correct situations or conditions detrimental to safety of flying personnel; assists Army Air Forces personnel on matters pertaining to flying safety and

aircraft accident prevention; prepares reports on results of investigations and surveys; keeps superiors informed of situation in area.

Must be a rated pilot.

Aeronautical engineering or other technical experience in aviation essential.

## SOURCE JOBS

Aeronautical Engineer      Commercial Pilot  
Air Accident Investigator

## MILITARY INTELLIGENCE OFFICER (9300)

Conducts original research and assists in surveys designed to furnish information about the enemy. Evaluates domestic and foreign reports on such matters as the strength, tactics and techniques, disposition, resources, trade, and morale of the enemy and prepares reports on investigations and research; maintains contacts and exchanges information with other intelligence sections and government agencies. May be responsible for the proper dissemination of information relative to military affairs. May instruct civilian and military personnel on military intelligence matters. May interview individuals believed to be in possession of valuable military information concerning the enemy.

Must have thorough knowledge of research techniques and be familiar with military organizations and procedures; must be able to read and speak foreign languages.

Military experience essential.

Civilian experience should include investigative and legal work in law enforcement agencies.

Should be college graduate; degree in law very desirable.

## SOURCE JOBS

F. B. I. Investigator      Special Investigator  
Police Detective          District Attorney  
Lawyer

## INTELLIGENCE STAFF OFFICER, COMBAT (G-2, A-2, S-2<sup>9</sup>) (9301)

Plans for and prepares orders pertaining to the collection, evaluation, interpretation, and distribution of information of enemy and counterintelligence activities, and keeps the commanding officer and all

<sup>9</sup>S-2 performs the above duties except on a lower level of responsibility in a regiment or lower echelon.

others concerned informed regarding the enemy's situation and capabilities. Collects, evaluates, and disseminates all enemy information obtained by military intelligence units; informs commanding officer and staff officers regarding enemy location, strength, and intentions; maintains liaison with other intelligence services and establishes unit intelligence observation posts; intercepts and solves enemy messages; supervises and trains scouts, observers, and staff personnel in intelligence functions and in counterinformation activities; obtains, prepares, and transmits maps of terrain. May assist operations, training, and reconnaissance officers in the performance of their duties. May handle public relations work, regulating activities of press correspondents and dissemination of information to public. When assigned to AAF may have staff responsibility for the preparation of pertinent camouflage plans contributing to local security.

Must show initiative, leadership, resourcefulness, tact, and keen intelligence; should have training in investigative or legal work, knowledge of foreign language, tacts and strategy, and psychology and characteristics of enemy highly desirable. For assignment to AAF should have sufficient knowledge of camouflage to prepare deception plans and supervise their execution.

#### COUNTERINTELLIGENCE OFFICER (CIC) (9302) (see c 1)

Collects, evaluates, or disseminates information pertaining to enemy activity, sabotage, or subversive activities. Organizes and supervises surveys and investigations; reviews, evaluates, and forwards counterintelligence reports; makes recommendations regarding counterintelligence activities; maintains liaison with local and federal investigative agencies or similar agencies of friendly countries. May be responsible for indoctrination of personnel in security measures, safeguarding of military information, or censorship, or for the planning of such programs. May conduct or direct the installation and operation of counter subversive measures, counter espionage systems or counter sabotage activities.

Must be familiar with investigative procedures and policies. Must possess tact, initiative, and diplomacy. Should have thorough knowledge of the language and political institutions of one or more foreign countries.

Military experience in post intelligence operations or staff experience in intelligence planning very desirable. G-2 clearance essential.

Civilian experience in legal or investigative work very desirable.

Should be college graduate; degree in law preferred.

#### SOURCE JOBS

F.B.I. Investigator	Police Detective
Special Investigator	Social Investigator
Lawyer	Credit Investigator
News Reporter	Claims Investigator
News Editor	Foreign Correspondent

#### FOREIGN LIAISON INTELLIGENCE OFFICER (9303)

Receives and evaluates reports from military observers in foreign countries. Maintains liaison with friendly foreign powers for the purpose of establishing sources of military intelligence information, and entertains dignitaries of friendly nations who are charged with military intelligence functions of their respective countries; evaluates general operations reports from foreign stations and transmits information of military importance to military intelligence.

Must have a thorough knowledge of military organizations; must be able to speak fluently language of nation to which detailed; must possess sound judgment and tact, and be versed in the art and techniques of diplomacy.

Military intelligence experience essential.

Special investigative experience with State Department highly desirable.

#### SOURCE JOBS

Ambassador	Consul
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#### PSYCHOLOGICAL WARFARE OFFICER (9305)

Plans, directs, and supervises preparation of propaganda material for dissemination by radio, press, and other media, including artillery shell and aircraft. Analyzes customs, habits, morale, and psychology of enemy troops and inhabitants of enemy and enemy-occupied areas; evaluates enemy, neutral and allied press, radio, pictorial, and other propaganda media; collaborates with officers interviewing enemy prisoners and civilians in order to secure information for gauging public opinion and troop morale and prepares suitable psychological warfare measures; prepares propaganda material, prepares plans for and assists in effecting maximum

distribution in the target area. Effects liaison with operational planning staffs to establish role of psychological warfare in combat operations. May conduct classes in the tactics and techniques of psychological warfare.

Must have a thorough professional knowledge of techniques of influencing public opinion by audio-visual media. Should have knowledge of the analysis of public opinion and the fundamentals of mass psychology. Foreign residence or travel and reading and speaking knowledge of foreign languages are desirable.

Military experience desirable, including knowledge of United States, allied, and foreign army organization, staff procedures and tactics very desirable.

Civilian experience should include the preparation of materials for press, radio, publications, stage or motion pictures.

Must be a college graduate with major studies in journalism, advertising, applied psychology, history, or political science or have the equivalent in practical experience.

#### SOURCE JOBS

Newspaper, Magazine, or Motion Picture Writer	Commercial Attaché Consular Officer Information Specialist
Advertising Writer	Press Attaché
Radio Commentator	Political Commentator
Foreign Correspondent	Foreign Business Agent

#### FOREIGN LANGUAGES PROPAGANDA OFFICER (9306)

Directs and supervises foreign language translation and adaptation of military information for propaganda purposes. Directs activities of linguists familiar with languages and idioms peculiar to countries in various theaters of operation; supervises preparation of radio scripts, speeches, proclamations, pamphlets, and posters, and their translation from English into foreign language; maintains files and records relative to the habits and customs of peoples and countries, idiosyncrasies of language, and other items of interest. May interview enemy prisoners or foreign civilians to obtain information and material for propaganda purposes.

Must be able to converse fluently in foreign languages and to make close literal and idiomatic translations.

Several years civilian experience in the translation of English into foreign languages essential.

Should be college graduate with special studies in

English and other languages; or have equivalent in practical experience and training.

#### SOURCE JOBS

Foreign Language Instructor	War Correspondent, Foreign Service
Foreign Attache	Foreign Correspondent

#### INTELLIGENCE OFFICER (9307)

Directs and supervises intelligence and counter-intelligence programs at a port, post, camp, or station. Investigates cases of possible sabotage, fires, accidents, espionage, and subversive activities; interviews applicants for employment regarding loyalty and citizenship and maintains records and files of all persons investigated; maintains liaison with military intelligence or police in connection with sabotage; issues confidential instructions to persons concerned; advises commander on all intelligence matters affecting security of the installation. When assigned to AAF may have staff responsibility for the preparation of pertinent camouflage plans contributing to local security.

Must be familiar with investigative procedures and show good tact and resourcefulness in handling cases. For assignment to AAF should have sufficient knowledge of camouflage to prepare deception plans and supervise their execution.

#### SOURCE JOBS

F.B.I. Investigator Lawyer	Police Investigator Executive or Administrative Officer, Water Transportation
Insurance Company Investigator	
Special Investigator	

#### INSPECTOR GENERAL (9310)

Inspects and investigates all matters pertaining to efficiency and economy of Army operations. Investigates complaints, irregularities, deficiencies, conditions of personnel, administration, money and property accounts, and supply of military installations, arsenals, and depots; secures facts, materials, or other relevant data as may be necessary to complete mission; studies and interprets regulations relating to supply and administration; makes audits pertaining to economic and lawful expenditures of funds; prepares basic reports, action letters, and such exhibits as may be necessary for review, analysis, and further action; confers with commanding officers on the coordination and efficiency of ac-

tivities or operations, and on the practical working of regulations, orders, and general policies; advises commanding and staff officers on such problems as discipline, sanitation, and general efficiency of command.

Must have comprehensive knowledge of inspection procedures and Army organization and administration. Must possess initiative, good judgment, integrity, and resourcefulness.

Military experience essential, including administrative, legal, investigative, or accounting work.

Civilian experience in administrative work along technical lines essential.

Should be college graduate with specialization in engineering, business administration, or law; or have equivalent in training and experience.

#### SOURCE JOBS

Civil Engineer	Production Engineer
Mechanical Engineer	Executive Officer
Electrical Engineer	Administrative Officer
Aeronautical Engineer	Fiscal Officer

#### INTELLIGENCE AND SECURITY OFFICER (9311)

Directs or supervises security and intelligence matters. Supervises and coordinates organization, employment, training, and inspection of military police, intelligence, counterintelligence, and civilian protection personnel engaged in such activities as interior guard duty, fire prevention and fire fighting, detention of general prisoners and prisoners of war, disaster relief, emergency evacuation, suppression of disorder, character investigations, and security of property and classified materials. May plan and direct operations of prisoner of war camps and escort guard companies. May supervise security and intelligence matters pertaining to research, production, distribution, and publication activities involving classified materials. May control security measures in connection with preparation and distribution of classified photographs, maps, and other documents.

Should have comprehensive knowledge of investigative procedures, investigations of military and civilian personnel, and regulations and procedures pertaining to classification and security of documents, equipment, and other materials. Must be tactful and resourceful in handling cases. Must have G-2 clearance.

Military experience including intelligence, internal

security, personnel security or police functions very desirable.

Should have civilian experience in legal or investigative work or in technical field appropriate to assignment.

Should have college education including legal or technical training appropriate to assignment.

#### SOURCE JOBS

F.B.I. Investigator	Facilities Protection
Special Investigator	Director
Public Safety Director	Lawyer
Insurance Company Investigator	Engineer (Appropriate Field)

#### RECONNAISSANCE OFFICER (9312)

Directs employment of unit in reconnaissance, security, and liaison missions, and coordinates establishment of communication and observation within unit. Explores and selects best routes and posts guides to direct organization along proper route; reconnoiters enemy disposition and informs unit commander of reconnaissance operations; locates enemy mine fields or lays mines to impede enemy advances; selects bivouac areas and provides security for unit command post; makes surveys and supervises preparation of maps and charts; maintains liaison with other elements of command and assists intelligence and operations officers.

Must be familiar with tactical and technical operations of arm or service to which assigned; must have a thorough knowledge of communication and reconnaissance.

Military experience in arm or service to which assigned essential; should include work in surveying, engineering, gunnery, or map reading.

Civilian experience in surveying, map making, or communication very desirable.

#### CHEMICAL INTELLIGENCE OFFICER, FIELD (9314)

Collects, evaluates, and disseminates enemy information obtained by military intelligence units regarding the possible use of chemical munitions and advises on weather conditions affecting the use of chemical weapons. Maintains liaison with other intelligence services and obtains, prepares, and transmits maps of terrain and weather reports; studies conditions, observes instruments, records wind velocity, temperature, changes, humidity and barometric pressure, and maintains necessary records,

charts, and maps; makes weather forecasts based upon information received from other sources and on changes in local weather conditions; keeps commanding officer and staff officers informed regarding weather conditions, possible enemy activity, state of development of chemical industry of enemy, and training of enemy in gas defense. May translate enemy documents.

Must have a thorough technical and tactical knowledge of the meteorological and terrain factors affecting the employment of chemical weapons. Knowledge of foreign languages desirable.

Military experience essential; should be a graduate of the Chemical Warfare School.

### SOURCE JOBS

Chemist                      Chemical Engineer

### PRISONER OF WAR INTERROGATION OFFICER (9316)

Supervises and participates in the collection of military intelligence through interrogation of prisoners of war. Obtains information concerning the enemy's intentions, disposition and strength of forces, order of battle, morale, tactical and technical method of hostile troops, and manpower problems and economic conditions in the enemy country; questions prisoners according to established techniques of interviewing, examination, and cross examination.

Must have thorough and detailed knowledge of military terms, organization, armament, tactics, methods of combat, logistics, and intelligence methods of the enemy forces. Should have thorough knowledge of the language, history, political organization, geography, customs, and habits of the hostile country; language ability should include knowledge of local dialect.

### SOURCE JOBS

Interpreters              Special Investigator  
Linguist

### ORDER OF BATTLE SPECIALIST (9318)

Furnishes G-2 with evaluated enemy tactical and strategic order of battle intelligence as a basis for predicting probable future enemy dispositions and long-range capabilities. Studies and interprets changes in enemy organization, logistics, strength, composition, disposition, tactics, and leadership, and evaluates their significance from an order of battle

viewpoints. Maintains a complete, current enemy order of battle for a theater and for potential theaters; maintains close liaison with other Order of Battle Specialist Teams in the theater and with other specialized intelligence teams (Aerial Photo-Interpreter, Prisoner of War Interrogation and Interpreter teams). Submits to G-2 Order of Battle estimates and requests and suggestions for reconnaissance or other investigative missions.

Knowledge of enemy language and country very desirable.

Graduation of the Military Intelligence Training Center general course and of the MITC specialized course in Order of Battle desirable.

Civilian experience should include use of a foreign language gained either through experience or residence in an enemy foreign country.

### SOURCE JOBS

Foreign Commercial Attaché	Import-Export Agent Translator
Diplomatic or Consular Staff Member	Foreign Language Stenographer
Foreign Correspondent	Foreign Sales Manager or Buyer
Foreign Missionary	

### INVESTIGATIONS OFFICER (9320)

Investigates and collects facts pertaining to particular incidents, operations, or violations of personal or official conduct. Reviews allegations or relevant data; investigates and analyzes causes, conducts hearings, interrogates principals and witnesses, and takes such other action as is necessary to determine facts; prepares reports of findings, presenting summary of facts with recommendations for appropriate action. May perform investigations of a diversified nature.

Must be able to assemble and analyze facts and draw correct conclusions; must show tact, initiative, and good judgment.

Military experience essential and varies with grade and responsibility of position.

Civilian experience should include administrative or investigative work.

Should be college graduate with specialization in accounting, business administration, or law; or have equivalent in training and experience.

### SOURCE JOBS

Personnel Investigator	Lawyer
Special Investigator	Public Accountant
Field Investigator	

## CRIMINAL INVESTIGATIONS OFFICER

(9322)

Assists and advises Provost Marshals and special agents charged with investigating criminal violations committed by persons subject to military law. Reviews and evaluates criminal cases and prepares pertinent correspondence; directs and supervises the activities of officers and agents investigating violations as defined in the Articles of War; maintains records and files, and prepares reports relating to activities.

Must be thoroughly familiar with the Articles of War.

Military investigating experience desirable.

Should have at least 6 months to 1 year investigative experience with a governmental agency, preferably in criminal investigation.

Should be college graduate or have equivalent in experience.

### SOURCE JOBS

Police Investigator                      Government Investigator  
Police Officer

## RECORDS SEARCHING OFFICER (9323)

Searches records and files of Military Intelligence Division and Office of Naval Intelligence for information relating to the identity of persons suspected of subversive activities and for existence of derogatory statements concerning such persons. Secures data on individuals or organizations suspected of subversive activities and evaluates obtained information; examines adjutant general's personnel files and reviews records of all personnel who have had military connections; maintains a library of publications furnished by Military Intelligence on espionage and subversive activities; forwards pertinent data and information to proper authority.

Should have experience in administrative, legal, or investigative work.

Law school training desirable.

### SOURCE JOBS

F.B.I. Investigator                      Insurance Record Investigator  
Lawyer                                      Special Investigator

## TRANSLATIONS OFFICER (9330)

Performs duties as translator. Expresses thoughts or meanings of written words of a foreign lan-

guage into the English language and vice versa; speaks, reads, and writes one of the following languages: Afrikans, Annamite, Aramic, Armenian, Arabic, Bantu, Baskue, Bengali, Bulgarian, Cambodian, Catalan, Chinese (Mandarin-Cantonese), Czechoslav (Serbo-Croatian), Danish, Dutch, Estonian, Finnish, French, Gaelic, German, Greek, Hindustani, Hungarian, Icelandic, Italian, Japanese, Javanese, Korean, Latvian, Lithuanian, Malagasy, Malayalam, Malayan, Mongolian, Norwegian, Persian, Polish, Portuguese, Pushtu, Rumanian, Russian, Spanish, Swahili, Swedish, Syriac, Thai, Tibito-Burmese, Turkish, Urdu, Welsh. May reconstruct passages in which portions of the text and wording are missing.

Should have an above-average knowledge of the social, economic, and political conditions of a country or countries in which one of the above languages is spoken. Should be familiar with problems of academic research, and be able to direct the activities of clerks in the solution of complex research problems. Should be an American citizen by birth or naturalization and possess unusual qualities of trustworthiness and discretion.

Military experience desirable.

Experience in linguistic field desirable.

Postgraduate work in linguistics or a particular language very desirable, but linguistic proficiency is more important than academic degrees received.

### SOURCE JOBS

Instructor, Languages                      Missionary  
Foreign Correspondent

## INTERPRETER (9332)

Performs duties as interpreter. Translates orally a foreign language into the English language and vice versa; explains or expounds oral expressions after translation; acts as intermediary in conversations involving military or civilian individuals, either friendly, neutral or enemy. May estimate and submit reports on situation of neighboring allied units. May examine civilians and perform other general intelligence and counterintelligence functions.

Must be a fluent linguist in one or more appropriate foreign languages, and speak, read, and write English and the foreign language concerned with equal ease.

Should have intimate knowledge of United States, allied and foreign Army organization, staff procedure, and tactics; customs, characteristics, history, economics, geography, and political institutions

of country involved. For assignment in Military Intelligence Department, must be able to read and interpret U. S. and foreign maps, conventional signs and military symbols; have had instruction in foreign Army identifications, examination of civilians, and in general and counterintelligence work. For MID assignment, should be graduate of Military Intelligence Training Center.

Civilian experience should include employment, extensive travel, residence or study abroad, requiring use of foreign languages.

#### SOURCE JOBS

Foreign Commercial Attaché	Foreign Sales Manager or Buyer
Diplomat or Consular Staff Member	Interpreter Translator
Foreign Correspondent	Foreign Language Stenographer
Foreign Missionary	
Import-Export Agent	

#### CENSORSHIP OFFICER (9335)

Safeguards information of vital importance by deleting such material from civilian and military photographs or communications. Examines communications or photographs and censors secret or confidential information; evaluates reports and information on military intelligence and forwards significant items to higher intelligence headquarters.

Should have intimate knowledge of foreign countries and be able to read, translate, and speak fluently one or more foreign languages; should be familiar with cryptography or cryptanalysis and know systems of electrical communication. Knowledge of photography or radio broadcasting desirable.

Military experience essential.

Civilian experience in journalism or in administrative or executive capacity very desirable.

Should have college education in journalism or modern languages.

#### SOURCE JOBS

Cryptanalyst	Newspaper Writer
Translator	Foreign Correspondent
Radio Announcer	

#### ENEMY EQUIPMENT IDENTIFICATION OFFICER (9340)

Directs and supervises the collection of enemy equipment for the preparation of manuals relating to captured equipment and matériel. Collects and

evaluates captured matériel and coordinates reports on the analyses made by various laboratories and manufacturers; prepares reports for higher departmental authority and other governmental agencies, and assists in the preparation of training and enemy equipment identification manuals; maintains inventory and control records of captured equipment. May assist in the preparation of curricula for training intelligence officers prior to assignment to field duty. G-2 clearance essential.

Military experience essential; should have field training in arm or service to which assigned.

Civilian experience should include broad technical experience appropriate to arm or service to which assigned.

College education in appropriate field of engineering desirable.

#### SOURCE JOBS

Mechanical Engineer	Civil Engineer
Aeronautical Engineer	Automotive Engineer

#### FIRE FIGHTING UNIT COMMANDER (9401)

Directs or supervises a fire fighting unit to provide protection for posts, ports, depots, hospitals, air bases or other installations. Inspects buildings and fire fighting equipment; determines adequacy of fire prevention measures in area; recommends removal of fire hazards; supervises testing and maintenance of fire fighting equipment; trains crash fire crews or other fire fighting unit personnel; directs operations of crew or unit in an emergency and is responsible for its administration, supply, and security. May maintain liaison with AAF base operations officer and insure readiness of crash fire crews.

Should be familiar with fire fighting equipment and with methods of combating all types of fires, including gasoline and oil conflagrations. Should be physically capable of demonstrating fire fighting techniques.

Civilian experience as fire department training instructor supplemented by actual fire department supervisory experience very desirable.

#### SOURCE JOBS

Municipal Fire Chief or Officer	Emergency Squad Member
Fire Fighter	Crash Crew Member

## FIRE MARSHAL (9414)

Organizes, directs, and supervises all units charged with the enforcement of orders and regulations pertaining to the control of fire hazards. Inspects buildings, apparatus, manufacturing processes, and fire-fighting equipment and makes necessary recommendations for appropriate corrective measures, such as removal of hazards, and provisions for and testing of fire-protection apparatus and equipment; issues orders and instructions to personnel relative to methods and procedures for fire fighting and conduct of drills; investigates causes of fires and extent of fire hazards.

Qualifications vary considerably depending upon location of duties and degree of responsibility. Should be familiar with fire-fighting equipment and with methods of controlling different kinds of fires.

Should have several years of experience in fire prevention or fire fighting.

### SOURCE JOBS

Engineer Inspector	Battalion Fire Chief
Fire Insurance Inspector	Town Grading
Fire Protection Supervisor	Engineer

## FIRE PREVENTION OFFICER (9415)

Acts in a professional advisory capacity in matters involving prevention or extinguishment of fires. Makes or supervises making of inspections and studies of physical conditions, and recommends proper fire-prevention conditions and fire-fighting equipment; determines adherence to fire-prevention principles and secures correction of equipment, designing automatic fire-protection equipment when necessary. In industrial establishments, conducts studies of industrial processes and recommends fire-control methods.

Must have broad general knowledge of fire-prevention and fire-protection devices and be able to apply basic principles of fire prevention and protection. In industrial establishments, must have thorough knowledge and broad experience with industrial process and have sufficient knowledge of civil, electrical, and chemical engineering to recognize faulty or hazardous installations and specify precautionary measures.

Civilian supervisory experience in engineering and inspection work pertaining to industrial fire protection essential.

College training in engineering essential.

## SOURCE JOBS

Insurance Rating Supervisor	Industrial Fire Protection Inspector
Insurance Company Executive	Production Security Engineer

## CAMOUFLAGE OFFICER (9511)

Determines methods of camouflage to be used to provide concealment for troops, matériel, and military installations and directs the fabrication and supply of camouflage materials. Studies aerial photographs and topographic maps, and reconnoiters territory to determine appropriate camouflage measures; supervises engineer units in the construction or manufacture of camouflage devices; makes inspections to determine efficiency of camouflage discipline and suggests corrective measures when necessary. May serve as instructor of camouflage within a unit or at a school or training center. May command a unit of camouflage engineers and be responsible for its administration, training, supply, transportation, and security.

Must have thorough knowledge of camouflage principles and techniques and must know camouflage employment of paints and dyestuffs, cloth coverings, and foliage; must be familiar with reflection and refraction of light as it applies to art of concealment; must be able to choose and improvise best camouflage for specific situations.

Military experience with troops and completion of Camouflage School course essential.

Should have experience in such fields as light construction, landscape architecture, and stage design.

College training in civil engineering, art, or landscape architecture desirable.

### SOURCE JOBS

Landscape Architect	Theatrical Art Director
Civil Engineer	Scenery Builder or Designer
Commercial Artist	
Costume Designer	

## CRYPTANALYTIC OFFICER, GENERAL (9600)

Devises methods of solving cryptographic systems and supervises the cryptanalyses of intercepted traffic; makes recommendations to increase the security of cryptographic systems.

Must know military organization and termin-

ology; must be thoroughly familiar with cryptography and cryptanalysis. Should have some knowledge of physics, mathematics, and statistics. Intelligence clearance essential.

Military experience in cryptography highly desirable.

Civilian experience in the fields of cryptography, mathematics, physics, actuarial science, or chemistry essential.

Should be college graduate with specialization in mathematics, physics, and statistics.

#### SOURCE JOBS

Mathematician	Physicist
Actuary	Chemist
Cryptanalyst	Student, Cryptography

#### CRYPTANALYTIC OFFICER, CODE (9601)

Prepares code systems and analyzes enemy codes.

Must have a thorough knowledge of cryptography and cryptanalysis, and be familiar with military organization and terminology. Should know foreign languages.

Military or civilian experience in cryptography desirable. G-2 clearance essential.

Should be college graduate.

#### SOURCE JOBS

Mathematician	Student, Arts and Science
Actuary	Student, Cryptography
Cryptanalyst	

#### CRYPTANALYTIC OFFICER, CHEMICAL (9602)

Directs preparation of materials for invisible writing, and examines documents for invisible writing.

Must have comprehensive knowledge of inks and chemicals, and of quantitative and qualitative analysis. G-2 clearance essential.

Military experience desirable.

Civilian experience should include work in chemistry or chemical engineering.

Must have completed college training in chemistry, with courses in micro-chemistry, microscopy, and photography very desirable.

#### SOURCE JOBS

Chemistry Instructor	Research Chemist
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#### CRYPTOGRAPHIC OFFICER, EQUIPMENT (9603)

Develops cryptographic systems that utilize electrical and mechanical techniques and supervises operation and maintenance of those systems.

Should have thorough knowledge of electrophysics, mathematics, chemistry, or mechanics. Must know military organization and terminology. G-2 clearance essential.

Military experience desirable.

Civilian experience should include design and development of equipment.

Should be college graduates with courses in physics, mechanics, and mathematics.

#### SOURCE JOBS

Physicist	Mechanical Engineer
Physical Chemist	Electrical Engineer

#### CRYPTANALYTIC OFFICER, TRANSLATIONS (9604)

Translates messages written in foreign languages and assists in the solution of foreign cryptographic systems.

Must be thoroughly familiar with at least one language. Intelligence clearance essential.

Military experience desirable; must know military organization and terminology.

Civilian experience in translation of foreign languages highly desirable.

College education with specialization in languages desirable.

#### SOURCE JOBS

Language Instructor	Translator
Language Student	

#### RADIO TRAFFIC ANALYSIS OFFICER (9605)

Analyzes and directs the analysis of radio traffic.

Should have knowledge of cryptography and cryptanalysis, and of enemy foreign languages. Must know military organization and terminology and be familiar with use of radio call signs and procedure. G-2 clearance necessary.

Civilian or military experience in radio operation desirable.

College education desirable; should have had training in radio theory, mathematics, and statistics.

### SOURCE JOBS

Amateur Radio Operator      Traffic Analyzer, commercial communication system

### CRYPTOGRAPHIC EQUIPMENT MAINTENANCE AND REPAIR OFFICER (9606)

Maintains and repairs mechanical cryptographic equipment and instructs others in the proper techniques of cryptographic equipment maintenance.

G-2 clearance essential.

Military experience desirable.

Must have several years experience in maintenance and repair of intricate electro-mechanical equipment.

Should be graduate of technical or vocational school.

### SOURCE JOBS

Teletypewriter Repairman      Calculating Machine  
Typewriter Repairman          Serviceman

### SECURITY OFFICER, CRYPTOGRAPHIC (9610)

Advises on proper use and assists in preparation and distribution of cryptographic systems.

Must have general knowledge of cryptography and limitations of radio, teletype, and other communication equipment, and be familiar with principles of cryptanalysis as applied to War Department systems. Must know military organization and terminology.

Intelligence clearance essential.

Military experience in Signal Corps desirable. Civilian experience in communications engineering desirable.

Should be college graduate.

### SOURCE JOBS

Mathematician                  Cryptanalyst  
Actuary                          Communications Engineer  
Physicist                         Chemist

### SECURITY OFFICER, CLASSIFIED MATERIALS (9620)

Analyzes security conditions and makes recommendations for maintaining security of classified documents, photographs, and other materials. Reviews photographs for the proper classification of equipment shown; makes physical check of security conditions; supervises and coordinates the destruction of classified waste and obsolete classified documents; makes recommendations for security establishments, both military and commercial as directed; coordinates with other arms and services for the maintenance of the proper security classification of military equipment in photographs and publicity released for other than War Department use. G-2 clearance essential.

Should have military training or experience with tactical or supply units.

Should have extensive civilian experience in appropriate field of engineering or research.

A degree in engineering or natural science preferred.

### SOURCE JOBS

Engineer in appropriate field