

| N&E Occupational Title | Industry Sector | Definition |
|-------------------------------|------------------------|---|
| | | Apply engineering theory and technical skills to support electrical engineering activities such |
| | | as process control, electrical power distribution, and instrumentation design. Prepare layouts of |
| Electrical Engineering | | machinery and equipment, plan the flow of work, conduct statistical studies and analyze |
| Technologists | Adv Manufacturing | production costs. |
| | | Apply engineering theory and technical skills to support electromechanical engineering |
| | | activities such as computer-based process control, instrumentation, and machine design. |
| Electromechanical Engineering | | Prepare layouts of machinery and equipment, plan the flow of work, conduct statistical studies |
| Technologists | Adv Manufacturing | and analyze production costs. |
| Electronics Engineering | | Apply engineering theory and technical skills to support electronics engineering activities such |
| Technologists | Adv Manufacturing | as electronics systems and instrumentation design and digital signal processing. |
| | | Apply engineering theory and technical skills to support industrial engineering activities such |
| Industrial Engineering | | as quality control, inventory control and material flow methods. May conduct statistical studies |
| Technologists | Adv Manufacturing | and analyze production costs. |
| | | Apply engineering theory and technical skills to support manufacturing engineering activities. |
| Manufacturing Engineering | | Develop tools, implement designs and integrate machinery, equipment and computer |
| Technologists | Adv Manufacturing | technologies to ensure effective manufacturing processes. |
| | | |
| | | Apply knowledge of materials and engineering theory and methods to design, integrate, and |
| | | improve manufacturing systems or related processes. May work with commercial or industrial |
| Manufacturing Engineers | Adv Manufacturing | designers to refine product designs to increase producibility and decrease costs. |
| | | Apply knowledge of manufacturing engineering systems and tools to set up, test, and adjust |
| Manufacturing Production | | manufacturing machinery and equipment, using any combination of electrical, electronic, |
| Technicians | Adv Manufacturing | mechanical, hydraulic, pneumatic and computer technologies. |
| | | Apply engineering theory and technical skills to support mechanical engineering activities such |
| | | as generation, transmission and use of mechanical and fluid energy. Prepare layouts of |
| Mechanical Engineering | | machinery and equipment and plan the flow of work. May conduct statistical studies and |
| Technologists | Adv Manufacturing | analyze production costs. |
| | | |
| | | Apply knowledge of mechanical, electrical, and computer engineering theory and methods to |
| Mechatronics Engineers | Adv Manufacturing | the design of automation, intelligent systems, smart devices, or industrial systems control. |



| N&E Occupational Title | Industry Sector | Definition |
|-----------------------------|------------------------|---|
| | | Apply knowledge of electronic and mechanical engineering theory and methods, as well as |
| | | specialized manufacturing technologies, to design and develop microelectromechanical systems |
| Microsystems Engineers | Adv Manufacturing | (MEMS) devices. |
| | | Apply knowledge of engineering and mathematical theory and methods to design technologies |
| Photonics Engineers | Adv Manufacturing | specializing in light information and light energy. |
| | | Build, install, test, and maintain optical and fiber optic equipment such as lasers, lenses and |
| Photonics Technicians | Adv Manufacturing | mirrors using spectrometers, interferometers, or related equipment. |
| Robotics Engineers | Adv Manufacturing | Research, design, develop, and test robotic applications. |
| | | |
| Robotics Technicians | Adv Manufacturing | Build, install, test, and maintain robotic equipment or related automated production systems. |
| | | Design objects, facilities, and environments to optimize human well-being and overall system |
| | | performance, applying theory, principles, and data regarding the relationship between humans |
| Human Factors Engineers and | | and respective technology. Investigate and analyze characteristics of human behavior and |
| Ergonomists | Aerospace | performance as it relates to the use of technology. |
| | | Assist engineers in determining the practicality of proposed product design changes, and plan |
| Automotive Engineering | | and carry out tests on experimental test devices and equipment for performance, durability and |
| Technicians | Automotive | efficiency. |
| | | Develop new or improved designs for vehicle structural members, engines, transmissions and |
| | | other vehicle systems, using computer-assisted design technology. Direct building, |
| Automotive Engineers | Automotive | modification, and testing of vehicle and components. |
| | | Design, evaluate, modify, and construct fuel cell components and systems for transportation, |
| Fuel Cell Engineers | Automotive | stationary, or portable applications. |
| | | Install, operate, and maintain integrated fuel cell systems in transportation, stationary, or |
| Fuel Cell Technicians | Automotive | portable applications. |
| | | Apply knowledge of biology, chemistry, and engineering to develop usable, tangible products. |
| | | Solve problems related to materials, systems and processes that interact with humans, plants, |
| Biochemical Engineers | Biotechnology | animals, microorganisms, and biological materials. |



| N&E Occupational Title | Industry Sector | Definition |
|--------------------------------------|------------------------|---|
| Bioinformatics Scientists | Biotechnology | Conduct research using bioinformatics theory and methods in areas such as pharmaceuticals, medical technology, biotechnology, computational biology, proteomics, computer information science, biology and medical informatics. May design databases and develop algorithms for processing and analyzing genomic information, or other biological information. |
| Bioinformatics Technicians | Biotechnology | Apply principles and methods of bioinformatics to assist scientists in areas such as pharmaceuticals, medical technology, biotechnology, computational biology, proteomics, computer information science, biology and medical informatics. Apply bioinformatics tools to visualize, analyze, manipulate or interpret molecular data. May build and maintain databases for processing and analyzing genomic or other biological information. |
| Biostatisticians | Biotechnology | Develop and apply biostatistical theory and methods to the study of life sciences. |
| Clinical Data Managers | Biotechnology | Apply knowledge of health care and database management to analyze clinical data, and to identify and report trends. |
| Clinical Research Coordinators | Biotechnology | Plan, direct, or coordinate clinical research projects. Direct the activities of workers engaged in clinical research projects to ensure compliance with protocols and overall clinical objectives. May evaluate and analyze clinical data. |
| Geneticists | Biotechnology | Research and study the inheritance of traits at the molecular, organism or population level. May evaluate or treat patients with genetic disorders. |
| Molecular and Cellular Biologists | Biotechnology | Research and study cellular molecules and organelles to understand cell function and organization. |
| Quality Control Analysts | Biotechnology | Conduct tests to determine quality of raw materials, bulk intermediate and finished products. May conduct stability sample tests. |
| Quality Control Systems Managers | Biotechnology | Plan, direct, or coordinate quality assurance programs. Formulate quality control policies and control quality of laboratory and production efforts. |
| Regulatory Affairs Managers | Biotechnology | Plan, direct, or coordinate production activities of an organization to ensure compliance with regulations and standard operating procedures. |
| Regulatory Affairs Specialists | Biotechnology | Coordinate and document internal regulatory processes, such as internal audits, inspections, license renewals or registrations. May compile and prepare materials for submission to regulatory agencies. |
| Validation Engineers | Biotechnology | Design and plan protocols for equipment and processes to produce products meeting internal and external purity, safety, and quality requirements. |



| N&E Occupational Title | Industry Sector | Definition |
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| Energy Engineers | Construction | Design, develop, and evaluate energy-related projects and programs to reduce energy costs or improve energy efficiency during the designing, building, or remodeling stages of construction. May specialize in electrical systems; heating, ventilation, and air-conditioning (HVAC) systems; green buildings; lighting; air quality; or energy procurement. |
| Non-Destructive Testing Specialists | Construction | Test the safety of structures, vehicles, or vessels using x-ray, ultrasound, fiber optic or related equipment. |
| Security Management Specialists | Construction | Conduct security assessments for organizations, and design security systems and processes. May specialize in areas such as physical security, personnel security, and information security. May work in fields such as health care, banking, gaming, security engineering, or manufacturing. |
| Adaptive Physical Education Specialists | Education | Provide individualized physical education instruction or services to children, youth or adults with exceptional physical needs, due to gross motor developmental delays or other impairments. |
| Distance Learning Coordinators Fitness and Wellness Coordinators | Education Education | Coordinate day-to-day operations of distance learning programs and schedule courses. Manage fitness and wellness programs and services. Direct and train staff of health educators, fitness instructors, or recreation workers. |
| Instructional Designers and Technologists | Education | Develop instructional materials and products and assist in the technology-based redesign of courses. Assist faculty in learning about, becoming proficient in, and applying instructional technology. |
| Tutors | Education | Provide non-classroom, academic instruction to students on an individual or small-group basis for proactive or remedial purposes. |
| Compliance Managers | Energy | Plan, direct, or coordinate activities of an organization to ensure compliance with ethical or regulatory standards. |
| Energy Auditors | Energy | Conduct energy audits of buildings, building systems and process systems. May also conduct investment grade audits of buildings or systems. |
| Energy Brokers | Energy | Purchase or sell energy for customers. |



| N&E Occupational Title | Industry Sector | Definition |
|---|------------------------|--|
| | | Develop quantitative financial products used to inform individuals and financial institutions engaged in saving, lending, investing, borrowing, or managing risk. Investigate methods for financial analysis to create mathematical models used to develop improved analytical tools and |
| Financial Quantitative Analysts | Financial | advanced financial investment instruments. |
| Fraud Examiners, Investigators and Analysts | Financial | Obtain evidence, take statements, produce reports, and testify to findings regarding resolution of fraud allegations. May coordinate fraud detection and prevention activities. |
| Investment Fund Managers | Financial | Plan, direct, or coordinate investment strategy or operations for a large pool of liquid assets supplied by institutional investors or individual investors. |
| Investment Underwriters | Financial | Intermediate between corporate issuers of securities and clients regarding private equity investments. Underwrite the issuance of securities to provide capital for client growth. Negotiate and structure the terms of mergers and acquisitions. |
| Risk Management Specialists | Financial | Analyze and make decisions on risk management issues by identifying, measuring and managing operational and enterprise risks for an organization. |
| Securities and Commodities Traders | Financial | Buy and sell securities and commodities to transfer debt, capital, or risk. Establish and negotiate unit prices and terms of sale. |
| Geodetic Surveyors | Geospatial | Measure large areas of the Earth's surface using satellite observations, global navigation satellite systems (GNSS), light detection and ranging (LIDAR), or related sources. |
| Geographic Information Systems Technicians | Geospatial | Assist scientists, technologists, and related professionals in building, maintaining, modifying, and using geographic information systems (GIS) databases. May also perform some custom application development and provide user support. |
| Geospatial Information Scientists and Technologists | Geospatial | Research and develop geospatial technologies. May produce databases, perform applications programming or coordinate projects. May specialize in areas such as agriculture, mining, health care, retail trade, urban planning or military intelligence. |
| Precision Agriculture Technicians | Geospatial | Apply geospatial technologies, including geographic information systems (GIS) and Global Positioning System (GPS), to agricultural production and management activities, such as pest scouting, site-specific pesticide application, yield mapping, and variable-rate irrigation. May use computers to develop and analyze maps and remote sensing images to compare physical topography with data on soils, fertilizer, pests or weather. |



| N&E Occupational Title | Industry Sector | Definition |
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| | | Apply remote sensing principles and methods to analyze data and solve problems in areas such |
| Remote Sensing Scientists and Technologists | Geospatial | as natural resource management, urban planning, and homeland security. May develop new analytical techniques and sensor systems or develop new applications for existing systems. |
| Remote Sensing Technicians | Geospatial | Apply remote sensing technologies to assist scientists in areas such as natural resources, urban planning, and homeland security. May prepare flight plans and sensor configurations for flight trips. |
| Remote Sensing Technicians | Geospatiai | Calculate, measure, load, mix, and process refined feedstock with additives in fermentation or |
| Biofuels Processing | | reaction process vessels and monitor production process. Perform, and keep records of, plant |
| Technicians | Green | maintenance, repairs, and safety inspections. |
| | | Manage operations at biofuels power generation facilities. Collect and process information on |
| Biofuels Production Managers | Green | plant performance, diagnose problems, and design corrective procedures. |
| Biofuels/Biodiesel Technology | | |
| and Product Development | | Define, plan, or execute biofuels/biodiesel research programs that evaluate alternative |
| Managers | Green | feedstock and process technologies with near-term commercial potential. |
| Biomass Plant Technicians | Green | Control and monitor biomass plant activities and perform maintenance as needed. |
| | | Manage operations at biomass power generation facilities. Direct work activities at plant, |
| Biomass Production Managers | Green | including supervision of operations and maintenance staff. |
| Brownfield Redevelopment | | Participate in planning and directing cleanup and redevelopment of contaminated properties for |
| Specialists and Site Managers | Green | reuse. Does not include properties sufficiently contaminated to qualify as Superfund sites. |
| | | Communicate and coordinate with management, shareholders, customers, and employees to |
| Chief Sustainability Officers | Green | address sustainability issues. Enact or oversee a corporate sustainability strategy. |
| Climate Change Applyate | C | Research and analyze policy developments related to climate change. Make climate-related recommendations for actions such as legislation, awareness campaigns, or fundraising |
| Climate Change Analysts | Green | approaches. |
| Environmental Economists | Green | Assess and quantify the benefits of environmental alternatives, such as use of renewable energy resources. |
| Livitoimientai Economists | Olecii | resources. |



| N&E Occupational Title | Industry Sector | Definition |
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| | | Collaborate with field and biology staff to oversee the implementation of restoration projects |
| Environmental Restoration | | and to develop new products. Process and synthesize complex scientific data into practical |
| Planners | Green | strategies for restoration, monitoring or management. |
| Geothermal Production | | Manage operations at geothermal power generation facilities. Maintain and monitor |
| Managers | Green | geothermal plant equipment for efficient and safe plant operations. |
| | | Perform technical activities at power plants or individual installations necessary for the |
| | | generation of power from geothermal energy sources. Monitor and control operating activities |
| | | at geothermal power generation facilities and perform maintenance and repairs as necessary. |
| Geothermal Technicians | Green | Install, test, and maintain residential and commercial geothermal heat pumps. |
| Green Marketers | Green | Create and implement methods to market green products and services. |
| | | |
| | | Monitor and control activities associated with hydropower generation. Operate plant |
| | | equipment, such as turbines, pumps, valves, gates, fans, electric control boards, and battery |
| | | banks. Monitor equipment operation and performance and make necessary adjustments to |
| Hydroelectric Plant Technicians | Green | ensure optimal performance. Perform equipment maintenance and repair as necessary. |
| Hydroelectric Production | | Manage operations at hydroelectric power generation facilities. Maintain and monitor |
| Managers | Green | hydroelectric plant equipment for efficient and safe plant operations. |
| | | Study or investigate industrial production and natural ecosystems to achieve high production, |
| | | sustainable resources, and environmental safety or protection. May apply principles and |
| Industrial Ecologists | Green | activities of natural ecosystems to develop models for industrial systems. |
| Methane/Landfill Gas | | Direct daily operations, maintenance, or repair of landfill gas projects, including maintenance |
| Collection System Operators | Green | of daily logs, determination of service priorities, and compliance with reporting requirements. |
| Concetion System Operators | Green | of daily logs, determination of service priorities, and comphance with reporting requirements. |
| Methane/Landfill Gas | | Monitor, operate, and maintain landfill gas collection system components and environmental |
| Generation System Technicians | Green | monitoring and control systems. |
| Recycling and Reclamation | | Prepare and sort materials or products for recycling. Identify and remove hazardous substances. |
| Workers | Green | Dismantle components of products such as appliances. |
| | | Supervise curbside and drop-off recycling programs for municipal governments or private |
| Recycling Coordinators | Green | firms. |



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| N&E Occupational Title | Industry Sector | Definition |
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| | | Lead or manage the development and evaluation of potential wind energy business |
| | | opportunities, including environmental studies, permitting, and proposals. May also manage |
| Wind Energy Project Managers | Green | construction of projects. |
| Wind Turbine Service | | Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine |
| Technicians | Green | equipment including resolving electrical, mechanical, and hydraulic malfunctions. |
| | | Provide treatment of symptoms and disorders using needles and small electrical currents. May |
| Acupuncturists | Health Care | provide massage treatment. May also provide preventive treatments. |
| | | Provide advanced nursing care for patients with acute conditions such as heart attacks, |
| | | respiratory distress syndrome, or shock. May care for pre- and post-operative patients or |
| Acute Care Nurses | Health Care | perform advanced, invasive diagnostic or therapeutic procedures. |
| Advanced Practice Psychiatric | | Provide advanced nursing care for patients with psychiatric disorders. May provide |
| Nurses | Health Care | psychotherapy under the direction of a psychiatrist. |
| | | Diagnose, treat, and help prevent allergic diseases and disease processes affecting the immune |
| Allergists and Immunologists | Health Care | system. |
| | | Assist anesthesiologists in the administration of anesthesia for surgical and non-surgical |
| Anesthesiologist Assistants | Health Care | procedures. Monitor patient status and provide patient care during surgical treatment. |
| | | Plan, direct, or coordinate the daily patient care activities in a clinical practice. Ensure |
| Clinical Nurse Specialists | Health Care | adherence to established clinical policies, protocols, regulations, and standards. |
| Critical Care Nurses | Health Care | Provide advanced nursing care for patients in critical or coronary care units. |
| | | Analyze chromosomes found in biological specimens such as amniotic fluids, bone marrow, |
| Cytogenetic Technologists | Health Care | and blood to aid in the study, diagnosis, or treatment of genetic diseases. |
| | | Stain, mount, and study cells to detect evidence of cancer, hormonal abnormalities, and other |
| Cytotechnologists | Health Care | pathological conditions following established standards and practices. |
| Dermatologists | Health Care | Diagnose, treat, and help prevent diseases or other conditions of the skin. |
| | | |
| Electroneurodiagnostic | | Conduct electroneurodiagnostic (END) tests such as electroencephalograms, evoked potentials, |
| Technologists | Health Care | polysomnograms, or electronystagmograms. May perform nerve conduction studies. |
| | | Maintain a sterile field to provide support for physicians and nurses during endoscopy |
| Endoscopy Technicians | Health Care | procedures. Prepare and maintain instruments and equipment. May obtain specimens. |



| N&E Occupational Title | Industry Sector | Definition |
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| Genetic Counselors | Health Care | Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to other health care providers or to individuals and families concerned with the risk of inherited conditions. Advise individuals and families to support informed decision making and coping methods for those at risk. May help conduct research related to genetic conditions or genetic counseling. |
| Hearing Aid Specialists Histotechnologists and Histologic Technicians | Health Care Health Care | Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds. Prepare histologic slides from tissue sections for microscopic examination and diagnosis by pathologists. May assist in research studies. |
| Hospitalists | Health Care | intensive care units, rehabilitation centers, or emergency rooms. Manage and coordinate patient care throughout treatment. |
| Informatics Nurse Specialists | Health Care | Apply knowledge of nursing and informatics to assist in the design, development, and ongoing modification of computerized health care systems. May educate staff and assist in problem solving to promote the implementation of the health care system. |
| Orientation and Mobility Specialists, and Vision | Health Care | activities. May train patients in activities such as computer use, communication skills, or home management skills. |
| Midwives | Health Care | Provide prenatal care and childbirth assistance. |
| Naturopathic Physicians | Health Care | Diagnose, treat, and help prevent diseases using a system of practice that is based on the natural healing capacity of individuals. May use physiological, psychological or mechanical methods. May also use natural medicines, prescription or legend drugs, foods, herbs, or other natural remedies. |
| Neurologists | Health Care | Diagnose, treat, and help prevent diseases and disorders of the nervous system. |
| Neuropsychologists and Clinical Neuropsychologists | Health Care | Apply theories and principles of neuropsychology to diagnose and treat disorders of higher cerebral functioning. |
| Nuclear Medicine Physicians | Health Care | Diagnose and treat diseases using radioactive materials and techniques. May monitor radionuclide preparation, administration, and disposition. |
| Nurse Anesthetists | Health Care | Administer anesthetics to induce total or partial loss of sensation or consciousness in patients during surgeries, births or other medical and dental procedures. |
| Nurse Midwives | Health Care | Provide advanced nursing care and education to obstetrical and gynecological patients. |



| N&E Occupational Title | Industry Sector | Definition |
|---|------------------------|---|
| Nurse Practitioners | Health Care | Provide advanced nursing care and treatment to patients. Perform physical examinations, order diagnostic tests, develop treatment plans and prescribe drugs or other therapies. |
| Ophthalmic Medical Technologists and Technicians | Health Care | Conduct diagnostic tests such as central and peripheral visual field, ocular motility, color vision, or pharmacological pupil tests; or tonometry, tonography and tensilon tonography tests to determine intraocular pressure and pupil testing for size, equality and reaction prior to dilation. |
| Ophthalmologists | Health Care | Diagnose, treat, and help prevent diseases and injuries of the eyes and related structures. |
| Orthoptists | Health Care | Diagnose and treat visual system disorders such as binocular vision and eye movement impairments. |
| Pathologists | Health Care | Diagnose presence and stage of diseases using laboratory techniques and patient specimens. Study the nature, cause, and development of diseases. May perform autopsies. |
| Patient Representatives | Health Care | Assist patients in obtaining services, understanding policies and making health care decisions. |
| Physical Medicine and Rehabilitation Physicians | Health Care | Diagnose and treat disorders requiring physiotherapy to provide physical, mental, and occupational rehabilitation. |
| Preventive Medicine Physicians | Health Care | Apply knowledge of general preventive medicine and public health issues to promote health care to groups or individuals, and aid in the prevention or reduction of risk of disease, injury, disability, or death. May practice population-based medicine or diagnose and treat patients in the context of clinical health promotion and disease prevention. |
| Radiologists | Health Care | Examine and diagnose disorders and diseases using x-rays and radioactive materials. May treat patients. |
| Speech-Language Pathology Assistants | Health Care | Assist speech-language pathologists in the assessment and treatment of speech, language, voice, and fluency disorders. Implement speech and language programs or activities as planned and directed by speech-language pathologists. Monitor the use of alternative communication devices and systems. |
| Sports Medicine Physicians | Health Care | Diagnose, treat, and help prevent injuries that occur during sporting events, athletic training, and physical activities. |



| N&E Occupational Title | Industry Sector | Definition |
|--------------------------------|------------------------|--|
| | | Diagnose, treat, and help prevent benign and malignant medical and surgical disorders of the |
| Urologists | Health Care | genitourinary system and the renal glands. |
| | | Develop, maintain and implement business continuity and disaster recovery strategies and |
| | | solutions. Perform risk analyses. Act as a coordinator for recovery efforts in emergency |
| Business Continuity Planners | Homeland Security | situations. |
| | | Gather, analyze, and evaluate information from a variety of sources, such as law enforcement |
| | | databases, surveillance, intelligence networks and geographic information systems. Use data to |
| Intelligence Analysts | Homeland Security | anticipate and prevent organized crime activities, such as terrorism. |
| | | Direct an organization's security functions, including physical security and safety of employees, |
| Security Managers | Homeland Security | facilities, and assets. |
| Transportation Security | | Inspect baggage or cargo and screen passengers to detect and prevent potentially dangerous |
| Officers | Homeland Security | objects from being transported into secure areas or onto aircraft. |
| | | Prepare or serve specialty coffee or other beverages. Serve food such as baked goods or |
| Baristas | Hospitality | sandwiches to patrons. |
| | | Plan, direct, or coordinate activities of a spa facility. Coordinate programs, schedule and direct |
| Spa Managers | Hospitality | staff, and oversee financial activities. |
| | | Produce financial and market intelligence by querying data repositories and generating periodic |
| | | reports. Devise methods for identifying data patterns and trends in available information |
| Business Intelligence Analysts | Information Tech | sources. |
| Computer Systems | | Design and develop solutions to complex applications problems, system administration issues, |
| Engineers/Architects | Information Tech | or network concerns. Perform systems management and integration functions. |
| | | Design, model, or implement corporate data warehousing activities. Program and configure |
| Data Warehousing Specialists | Information Tech | warehouses of database information and provide support to warehouse users. |
| | | |
| | | Design strategies for enterprise database systems and set standards for operations, |
| D. I. A. I. | T. C | programming, and security. Design and construct large relational databases. Integrate new |
| Database Architects | Information Tech | systems with existing warehouse structure and refine system performance and functionality. |
| Document Management | T.C 77. 1 | Implement and administer enterprise-wide document management procedures for the capture, |
| Specialists | Information Tech | storage, retrieval, sharing, and destruction of electronic records and documents. |



| N&E Occupational Title | Industry Sector | Definition |
|-----------------------------------|------------------------|--|
| Electronic Commerce | | Market products on proprietary websites. Produce online advertising. Determine website |
| Specialists | Information Tech | content and design. Analyze customer preferences and online sales. |
| | | Plan, initiate, and manage information technology (IT) projects. Lead and guide the work of |
| | | technical staff. Serve as liaison between business and technical aspects of projects. Plan project |
| Information Technology Project | | stages and assess business implications for each stage. Monitor progress to assure deadlines, |
| Managers | Information Tech | standards, and cost targets are met. |
| | | Determine user requirements and design specifications for computer networks. Plan and |
| Network Designers | Information Tech | implement network upgrades. |
| Software Quality Assurance | | Develop and execute software test plans in order to identify software problems and their |
| Engineers and Testers | Information Tech | causes. |
| | | Design or configure voice and data communications systems, supervise installation, and |
| Telecommunications Specialists | Information Tech | arrange for post-installation service and maintenance. |
| Video Game Designers | Information Tech | Design core features of video games. Specify innovative game and role-play mechanics, story lines, and character biographies. Create and maintain design documentation. Guide and collaborate with production staff to produce games as designed. |
| | | Manage web environment design, deployment, development and maintenance activities. |
| Web Administrators | Information Tech | Perform testing and quality assurance of web sites and web applications. |
| Web Developers | Information Tech | Develop and design web applications and web sites. Create and specify architectural and technical parameters. Direct web site content creation, enhancement and maintenance. Design, develop, and supervise the production of materials, devices, and systems of unique |
| | | molecular or macromolecular composition, applying principles of nanoscale physics and |
| Nanosystems Engineers | Nanotechnology | electrical, chemical, and biological engineering. |
| 8 | | Operate commercial-scale production equipment to produce, test, and modify materials, |
| Nanotechnology Engineering | | devices, and systems of molecular or macromolecular composition. Work under the supervision |
| Technicians | Nanotechnology | of engineering staff. |
| | | Implement production processes for nanoscale designs to produce and modify materials, |
| | | devices, and systems of unique molecular or macromolecular composition. Operate advanced |
| Nanotechnology Engineering | | microscopy equipment to manipulate nanoscale objects. Work under the supervision of |
| Technologists | Nanotechnology | engineering staff. |



| N&E Occupational Title | Industry Sector | Definition |
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| Loss Prevention Managers | Retail | Plan and direct policies, procedures, or systems to prevent the loss of assets. Determine risk exposure or potential liability, and develop risk control measures. |
| Loss Prevention Specialists | Retail | Implement procedures and systems to prevent merchandise loss. Conduct audits and investigations of employee activity. May assist in developing policies, procedures, and systems for safeguarding assets. |
| Online Merchants | Retail | Plan, direct, or coordinate retail activities of businesses operating online. May perform duties such as preparing business strategies, buying merchandise, managing inventory, implementing marketing activities, fulfilling and shipping online orders, and balancing financial records. |
| Customs Brokers | Transportation | Prepare customs documentation and ensure that shipments meet all applicable laws to facilitate the import and export of goods. Determine and track duties and taxes payable and process payments on behalf of client. Sign documents under a power of attorney. Represent clients in meetings with customs officials and apply for duty refunds and tariff reclassifications. Coordinate transportation and storage of imported goods. |
| Freight Forwarders | Transportation | Research rates, routings, or modes of transport for shipment of products. Maintain awareness of regulations affecting the international movement of cargo. Make arrangements for additional services such as storage and inland transportation. |
| Logistics Analysts | Transportation | Analyze product delivery or supply chain processes to identify or recommend changes. May manage route activity including invoicing, electronic bills, and shipment tracing. |
| Logistics Engineers | Transportation | Design and analyze operational solutions for projects such as transportation optimization, network modeling, process and methods analysis, cost containment, capacity enhancement, routing and shipment optimization, and information management. |
| Logistics Managers | Transportation | Plan, direct, or coordinate purchasing, warehousing, distribution, forecasting, customer service, or planning services. Manage logistics personnel and logistics systems and direct daily operations. |
| Radio Frequency Identification Device Specialists | Transportation | Design and implement radio frequency identification device (RFID) systems used to track shipments or goods. |



| N&E Occupational Title | Industry Sector | Definition |
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| Supply Chain Managers | Transportation | Direct, or coordinate production, purchasing, warehousing, distribution, or financial forecasting services and activities to limit costs and improve accuracy, customer service and safety. Examine existing procedures and opportunities for streamlining activities to meet product distribution needs. Direct the movement, storage, and processing of inventory. |
| Transportation Engineers | Transportation | Develop plans for surface transportation projects according to established engineering standards and state or federal construction policy. Prepare plans, estimates, or specifications to design transportation facilities. Plan alterations and modifications of existing streets, highways, or freeways to improve traffic flow. |
| Transportation Planners | Transportation | Prepare studies for proposed transportation projects. Gather, compile, and analyze data. Study the use and operation of transportation systems. Develop transportation models or simulations. |