

Career Descriptions—Satellite Rescue



AEROSPACE ENGINEER

Description

Perform engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. Conduct research on aircraft design. Recommend improvements in testing equipment and techniques.

Tasks

Design aeronautical or aerospace products to meet customer requirements.

Direct engineering of aircraft or aerospace products.

Plan and conduct experimental and stress tests on models and prototypes of aircraft and aerospace systems and equipment.

Skills

Time Management - Manage one's own time and the time of others.

Critical Thinking - Use logic and reasoning to identify approaches to problems.

Judgment and Decision Making - Consider the relative costs and benefits of actions to choose the most appropriate one.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Design - Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Engineering and Technology - Knowledge of the design and production of various goods and services.

Physics - Knowledge of fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub atomic structures and processes.

Average Income

\$72,750

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

45

Career Descriptions—Satellite Rescue



AEROSPACE ENGINEERING AND OPERATIONS TECHNICIAN

Description

Operate, install, and maintain computer/communications systems, simulators, and other data instruments to launch, track, and evaluate air and space vehicles. May record and interpret test data.

Tasks

Exchange cooling system components in various vehicles.

Meet with engineering personnel regarding details of test procedures and results.

Test aircraft under simulated operational conditions.

Perform readiness tests and pre- and postoperational checkouts to establish design features.

Operate computer systems and devices.

Skills

Visualization – Imagine how something will look after it is moved around or when its parts are moved or rearranged.

Written Expression - Communicate information and ideas in writing so others will understand.

Inductive Reasoning - Combine pieces of information to form general rules or conclusions.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Engineering and Technology

Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Physics - Knowledge and prediction of physical principles.

Mathematics - Knowledge of arithmetic, algebra, geometry,

calculus, statistics, and their applications.

Computers and Electronics

Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software.

Mechanical - Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Average Income

\$51,650

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

9

Career Descriptions—Satellite Rescue



AIRLINE PILOT, COPILOT, and FLIGHT ENGINEER

Description

Pilot and navigate the flight of multiengine aircraft for the transport of passengers and cargo. Obtain a certification for the type of aircraft being flown.

Tasks

Instruct other pilots and student pilots in aircraft operations and the principles of flight.

Work as part of a flight team with other crew members, especially during takeoffs and landings.

Steer aircraft along planned routes with the assistance of autopilot and flight management computers.

Skills

Operation and Control -

Control operations of equipment or systems.

Operation Monitoring - Watch gauges, dials, or other indicators to make sure a machine is working properly.

Active Listening - Give full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic,

investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Enterprising

Starting up and carrying out projects; leading people and making many decisions; taking risks and often dealing with business.

Knowledge

Transportation - Knowledge of principles and methods for moving people or goods by air, rail, sea, or road, including the relative costs and benefits.

Physics - Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and subatomic structures and processes.

Geography - Knowledge of principles and methods for describing the features of land, sea, and air masses, including their

physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.

Average Income

\$109,580

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

57

Career Descriptions—Satellite Rescue



ATMOSPHERIC AND SPACE SCIENTIST

Description

Investigate atmospheric phenomena. Interpret data gathered by stations, satellites, and radar. Prepare reports and forecasts for public and other uses.

Tasks

Broadcast weather conditions, forecasts, and severe weather warnings to the public using television, radio, and the Internet.

Study and interpret data, using computer models.

Prepare forecasts and briefings to meet the needs of industry, business, government, and other groups.

Skills

Critical Thinking - Use logic to identify the strengths and weaknesses of different solutions to problems.

Active Learning - Understand the meaning of new information for decision making.

Operation and Control - Control operations of equipment or systems.

Interests

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Investigative

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Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Communications and Media - Knowledge of media production and communication methods. This includes knowing different ways to inform and entertain through written, oral, and visual media.

Physics - Understanding of fluid and atmospheric dynamics. Understand atomic and subatomic structures and processes.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Average Income

\$60,200

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

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Career Descriptions—Satellite Rescue



AVIONICS TECHNICIAN

Description

Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.

Tasks

Connect components to assemblies such as radio systems, instruments, and in-flight refueling systems, using hand tools and soldering irons.

Assemble components such as switches, electrical controls, and junction boxes, using hand tools and soldering irons.

Adjust, repair, or replace malfunctioning components or assemblies, using hand tools and/or soldering irons.

Set up and operate ground support and test equipment to perform functional flight tests of electrical and electronic systems.

Skills

Troubleshooting - Determine causes of operating errors and decide what to do about it.

Installation - Install equipment, machines, wiring, or programs to meet specifications.

Operation and Control - Control operations of equipment or systems.

Equipment Maintenance - Perform routine maintenance on

equipment and determine when and what kind of maintenance is needed.

Repairing - Repair machines or systems, using the needed tools.

Interests

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Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Engineering and Technology - Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the

design and production of various goods and services.

Physics - Knowledge and prediction of physical principles.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Computers and Electronics - Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software.

Mechanical - Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Average Income

\$42,030

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

15

Career Descriptions—Satellite Rescue



BIOMEDICAL ENGINEER

Description

Apply knowledge of engineering and biology to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, and instrumentation.

Tasks

Develop models or computer simulations of human bio-behavioral systems in order to obtain data for measuring or controlling life processes.

Diagnose and interpret bioelectric data.

Develop new applications for energy sources, such as using nuclear power for biomedical implants.

Design and deliver technology to assist people with disabilities.

Design and develop clinical instrumentation, equipment, and procedures.

Conduct research along with life scientists, chemists, and medical scientists on the engineering aspects of the biological systems of humans and animals.

Skills

Medicine and Dentistry - Knowledge of the information and techniques needed to diagnose and treat human injuries and diseases. This includes symptoms, treatment, drug interactions, and preventive health care measures.

Computers and Electronics - Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software.

Biology - Knowledge of plant and animal organisms and their tissues, cells, and functions.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Science - Using scientific rules and methods to solve problems.

Interests

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Realistic

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Conventional

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usually with a clear line of authority to follow.

Average Income

\$60,410.00

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

6

Career Descriptions—Satellite Rescue



CALIBRATION AND INSTRUMENTATION TECHNICIAN

Description

Develop, test, calibrate, operate, and repair many types of instruments. Instruments include mechanical, electromechanical, and electrohydraulic measuring and recording instruments.

Tasks

Sketch plans for developing instruments and related equipment.

Disassemble and reassemble instruments and equipment, using hand tools.

Inspect instruments and equipment for defects.

Select sensing, telemetering, and recording instrumentation and circuitry.

Skills

Equipment Selection – Determine the kind of tools and equipment needed to do a job.

Equipment Maintenance – Perform routine maintenance on equipment and determine when and what kind of maintenance is needed.

Mathematics – Use mathematics to solve problems.

Quality Control Analysis – Conduct tests and inspections of products, services, or processes to evaluate quality or performance.

Interests

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Investigative

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Realistic

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Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Engineering and Technology – Knowledge of engineering science and technology. This includes applying principles and procedures to the design of various goods and services.

Mathematics – Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Computers and Electronics – Knowledge of circuit boards,

processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

Mechanical – Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Average Income

\$55,157

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

51

Career Descriptions—Satellite Rescue



CARDIOVASCULAR TECHNOLOGIST AND TECHNICIAN

Description

Conduct tests on pulmonary or cardiovascular systems of patients.

Tasks

Explain testing procedures to patients to obtain cooperation and reduce anxiety.

Enter factors such as amount and quality of radiation beam into computer.

Conduct electrocardiogram, phonocardiogram, echocardiogram, stress testing, and other cardiovascular tests to record patients' cardiac activity.

Compare measurements of heart wall thickness and chamber sizes to normal measurements to identify abnormalities.

Attach electrodes to the patients' chests, arms, and legs; connect electrodes to leads from the electrocardiogram (EKG) machine; and operate the EKG machine to obtain a reading.

Assist physicians in diagnosis and treatment of cardiac and peripheral vascular treatments.

Skills

Operation Monitoring - Watch gauges, dials, or other indicators to make sure a machine is working properly.

Science - Use scientific rules and methods to solve problems.

Reading Comprehension - Understand written sentences and paragraphs in work-related documents.

Speaking - Talk to others to convey information effectively.

Mathematics - Use mathematics to solve problems.

Interests

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Realistic

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Social

Helping, training, serving, or enriching the lives of other people, or working and learning with other people around you.

Knowledge

Medicine and Dentistry - Knowledge of the information and techniques needed to diagnose and treat human injuries and diseases. This includes symptoms, treatment, drug interactions, and preventive health care measures.

Computers and Electronics - Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software.

Clerical - Knowledge of administrative and clerical procedures and systems, such as word processing and managing files and records.

Biology - Knowledge of plant and animal organisms and their tissues, cells, and functions.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Average Income

\$36,430

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

35

Career Descriptions—Satellite Rescue



CHEMIST

Description

Conduct chemical analyses or experiments in laboratories for quality control or to develop new products or knowledge.

Tasks

Develop, improve, and customize products, equipment, formulas, processes, and analytical methods.

Analyze organic and inorganic compounds to determine chemical and physical properties.

Determine the composition, structure, and relationships of compounds, using chromatography techniques.

Prepare test solutions, compounds, and reagents for laboratory personnel to conduct test.

Skills

Quality Control Analysis -

Conduct tests and inspections of products, services, or processes to evaluate quality or performance.

Complex Problem Solving -

Identify complex problems and review related information to develop and evaluate options and implement solutions.

Reading Comprehension -

Understand written sentences and paragraphs in work-related documents.

Interests

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Realistic

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Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Chemistry - Knowledge of the chemical composition, structure, and properties of substances. Understanding of the chemical processes and transformations that chemicals undergo.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Engineering and Technology - Knowledge of engineering science

and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services

Average Income

\$52,890

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

58

Career Descriptions—Satellite Rescue



ELECTRICAL ENGINEER

Description

Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

Tasks

Design, maintain, and improve electrical instruments, equipment, products, and systems for commercial, industrial, and domestic purposes.

Operate computer-assisted engineering and design software and equipment.

Oversee project production efforts.

Prepare technical drawings and maps to make sure that operations conform to customer requirements.

Perform calculations to establish manufacturing and construction standards.

Skills

Complex Problem Solving - Identify problems and review information to develop options and solutions.

Active Listening - Give full attention to what other people are saying, taking time to understand the points being made.

Troubleshooting - Determine causes of operating errors and decide what to do about it.

Critical Thinking - Use logic and reasoning to identify the strengths and weaknesses of solutions and conclusions to problems.

Reading Comprehension - Understand written sentences and paragraphs in work-related documents.

Technology Design - Generate or adapt equipment and technology to serve user needs.

Interests

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Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Engineering and Technology - Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Physics - Knowledge and prediction of physical principles.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Computers and Electronics - Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software.

Mechanical - Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Design - Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Average Income

\$68,180

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

97

Career Descriptions—Satellite Rescue



EMERGENCY MANAGEMENT SPECIALIST

Description

Coordinate disaster response or crisis management activities. Provide training on preparing for disasters. Prepare emergency plans and procedures for natural and other disasters

Tasks

Study emergency plans used elsewhere in order to gather information for plan development.

Prepare plans that outline operating procedures to be used in response to disasters/emergencies, such as hurricanes, nuclear accidents, and terrorist attacks, and in recovery from these events.

Apply for federal funding for emergency management-related needs; administer such grants and report on their progress.

Skills

Mathematics - Use mathematics to solve problems.

Active Learning - Understand new information for problem solving and decision making.

Complex Problem Solving - Identify complex problems and determine solutions.

Interests

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areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

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Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Clerical - Knowledge of procedures such as word processing, managing files and records, and other office procedures and terminology.

English Language - Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

Average Income

\$43,560

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

9

Career Descriptions—Satellite Rescue



INTERNIST, GENERAL

Description

Diagnose and provide nonsurgical treatment of diseases and injuries of internal organ systems.

Tasks

Advise patients about diet, activity, hygiene, and disease prevention.

Prepare government or organizational reports on birth, death, and disease statistics or the medical status of individuals.

Advise surgeon of a patient's risk status and recommend appropriate intervention to minimize risk.

Treat internal disorders, such as hypertension, heart disease, diabetes, and problems of the lung, brain, kidney, and gastrointestinal tract.

Monitor patients' conditions and progress and reevaluate treatments as necessary.

Skills

Reading Comprehension -

Understand written sentences and paragraphs in work-related documents.

Science - Use scientific rules and methods to solve problems

Judgment and Decision

Making - Consider the costs and benefits of potential actions to choose the most appropriate one.

Critical Thinking - Use logic and reasoning to identify the strengths and weaknesses of solutions and conclusions to problems.

Speaking - Talk to others to convey information effectively.

Interests

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Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Enterprising

Starting up and carrying out projects; leading people and making many decisions; taking risks and often dealing with business.

Social

Helping, training, serving, or enriching the lives of other people, or working and learning with other people around you.

Knowledge

Administration and

Management - Knowledge of business and management principles involved in strategic planning, leadership, production methods, and coordination of people and resources.

Chemistry - Knowledge of the chemical composition, structure, and properties of substances.

English Language - Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

Medicine and Dentistry -

Knowledge of the information and techniques needed to diagnose and treat human injuries and diseases. This includes symptoms, treatments, drug interactions, and preventive health care measures.

Biology - Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

Average Income

\$49,019

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

129

Career Descriptions—Satellite Rescue



MATHEMATICIAN

Description

Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields by mathematical methods.

Tasks

Apply mathematical theories and techniques to the solution of practical problems in business, engineering, or the sciences.

Address the relationships of quantities, magnitudes, and forms through the use of numbers and symbols.

Perform computations and apply methods of numerical analysis to data.

Conduct research to extend mathematical knowledge in traditional areas, such as algebra, geometry, probability, and logic.

Skills

Mathematics - Use mathematics to solve problems.

Active Learning - Understand the implications of new information for both current and future problem solving and decision making.

Critical Thinking - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Artistic

Working with forms, designs, and patterns and often requiring self-expression and without following a clear set of rules.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Engineering and Technology

Knowledge of engineering science and technology. This includes applying principles and procedures to the design of various goods and services.

Geography - Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.

Mathematics - Knowledge of arithmetic, algebra, geometry,

calculus, statistics, and their applications.

Mechanical - Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Average Income

\$76,470

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

2

Career Descriptions—Satellite Rescue



MEDICAL ASSISTANT

Description

Perform administrative and clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and giving medications.

Tasks

Interview patients to obtain medical information and measure their vital signs, weight, and height.

Record patients' medical history, vital statistics, and information, such as test results in medical records.

Prepare and administer medications as directed by a physician.

Collect blood, tissue, or other laboratory specimens, log the specimens, and prepare them for testing.

Help physicians examine and treat patients, handing them instruments and materials or performing such tasks as giving injections and removing sutures.

Skills

Active Listening - Give full attention to what other people are saying, taking time to understand the points being made.

Speaking - Talk to others to convey information effectively.

Social Perceptiveness - Be aware of others' reactions and understand why they react as they do.

Instructing - Teach others how to do something.

Reading Comprehension - Understand written sentences and paragraphs in work-related documents.

Interests

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Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Social

Helping, training, serving, or enriching the lives of other people, or working and learning with other people around you.

Knowledge

Therapy and Counseling - Knowledge of principles, methods, and procedures for diagnosis and treatment of physical and mental dysfunctions and for career counseling and guidance.

English Language - Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

Customer and Personal Service - Knowledge of principles and processes for providing customer and personal services.

Medicine and Dentistry - Knowledge of the information needed to diagnose and treat human injuries and diseases. This includes symptoms, treatments, drug interactions, and preventive health care measures.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Average Income

\$23,940

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

352

Career Descriptions—Satellite Rescue



REGISTERED NURSE

Description

Assess patient health problems and needs, develop nursing care plans, and maintain medical records. Administer nursing care to ill, injured, or disabled patients. Licensing or registration required. Advanced practice nursing is practiced by RNs who have specialized formal education.

Tasks

Maintain accurate, detailed reports and records.

Monitor, record and report symptoms and changes in patients' conditions.

Modify patient treatment plans as indicated by patients' responses and conditions.

Deliver infants and provide prenatal and postpartum care and treatment under obstetrician's supervision.

Order, interpret, and evaluate diagnostic tests to identify and assess patient's condition.

Consult and coordinate with health care team members to assess, plan, implement and evaluate patient care plans.

Skills

Active Listening - Give full attention to what other people are saying, taking time to understand the points being made.

Reading Comprehension -

Understand written sentences and paragraphs in work-related documents.

Critical Thinking - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.

Instructing - Teach others how to do something.

Speaking - Talk to others to convey information effectively

Interests

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Social

Helping, training, serving, or enriching the lives of other people, or working and learning with other people around you.

Knowledge

Therapy and Counseling - Knowledge of principles, methods, and procedures for diagnosis, treatment, and rehabilitation of physical and mental dysfunctions and for career counseling and guidance.

English Language - Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

Medicine and Dentistry - Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health care measures.

Biology - Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

Average Income

\$48,090

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

1,769

Career Descriptions—Satellite Rescue



RESPIRATORY THERAPIST

Description

Treat and care for patients with breathing disorders. Supervise respiratory therapy treatment, maintain patient records, and operate equipment.

Tasks

Set up and operate devices such as ventilators, control systems, and aerosol generators.

Provide emergency care, including artificial respiration, external cardiac massage, and cardiopulmonary resuscitation.

Determine treatment, such as type of therapy, precautions to be taken, and medication, according to doctor's orders.

Monitor patient's responses to therapy by checking vital signs, blood gases, blood chemistry changes, etc.

Work as part of a team of doctors, nurses, and other health care professionals to manage patient care.

Maintain charts that contain patients' identification and therapy information.

Skills

Active Listening - Give full attention to what other people are saying; take time to understand the points being made.

Instructing - Teach others how to do something.

Reading Comprehension - Understand written sentences and paragraphs.

Critical Thinking - Use logic and reasoning to identify the strengths and weaknesses of solutions or conclusions to problems.

Monitoring - Keep track of the performance of yourself, others, or organizations to make improvements.

Active Learning - Understand information for decision making.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories below describe the career interests of people in this job.

Realistic

Interested in activities that use tools, machines, or objects; involve working outside; or entail physical labor and using your hands.

Investigative

Interested in science and math or finding ways to solve problems.

Social

Involve working with, communicating with, and teaching people; often involve helping or providing service to others.

Knowledge

Medicine and Dentistry -

Knowledge of the information and techniques needed to diagnose and treat human injuries and diseases. This includes symptoms, treatment, drug interactions, and preventive health care measures.

Customer and Personal Service -

Knowledge of principles and processes for providing customer and personal services.

Psychology - Knowledge of human behavior and performance.

Education and Training -

Knowledge of principles and methods for curriculum and training design and instruction for individuals and groups.

Chemistry - Knowledge of the chemical composition, structure, and properties of substances.

Average Income

\$40,220

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

70

Career Descriptions—Satellite Rescue



STATISTICIAN

Description

Collect and interpret numerical data to provide useful information. Contribute to development of mathematical theory. Specialize in fields such as biostatistics, agricultural statistics, business statistics, or other fields.

Tasks

Analyze and interpret statistical data in order to identify significant differences in relationships among sources of information.

Adapt statistical methods in order to solve specific problems in many fields, such as economics, biology, and engineering.

Prepare data for processing by organizing information, checking for any inaccuracies, and adjusting and weighting the raw data.

Skills

Mathematics - Use mathematics to solve problems.

Active Learning - Understand new information for problem solving and decision making.

Complex Problem Solving - Identify complex problems and determine solutions.

Interests

More than 100,000 people in 1,600-plus jobs evaluated their work in six areas of career interests: realistic, investigative, artistic, social, enterprising, and conventional. The three categories

below describe the career interests of people in this job.

Investigative

Working with ideas, doing an extensive amount of thinking, searching for facts, and figuring out problems mentally.

Realistic

Dealing with practical, hands-on problems and solutions, often involving plants, animals, and real-world materials like wood, tools, and machinery; often working outside without a lot of paperwork or working closely with others.

Conventional

Following set procedures and routines; working with data and details more than with ideas, usually with a clear line of authority to follow.

Knowledge

Clerical - Knowledge of procedures such as word processing, managing files and records, and other office procedures and terminology.

Mathematics - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

English Language - Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

Average Income

\$57,080

Job Needs

Current jobs needs for the year 2012 for every 100,000 people:

13