

CAREER SHOWCASE

12 STEM Careers in the Military



Science, technology, engineering and mathematics (STEM) represents one of the most in-demand fields of professional growth. Here you'll discover a few of the STEM career opportunities that the Military offers today.



TECHNICAL ENGINEERS

Technical engineers are tasked with performing essential services that aid in the development of military construction sites. These responsibilities include technical investigations, conducting land surveys, preparing detailed construction plans, drawing computer-aided site maps and even conducting laboratory tests on construction materials.

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BIOCHEMISTS/PHYSIOLOGISTS

Biochemists/physiologists are primarily responsible for the scientific research of biochemistry and physiology for the Military's healthcare teams. In this role, officers have the opportunity to supervise tests, manage laboratory operations and resources, and enhance their skills while conducting research that supports national defense.

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NUCLEAR ENGINEERS

Nuclear reactors power the most technologically advanced equipment in the Military, including submarines and aircraft carriers. It's the responsibility of nuclear engineers to fully understand the design, physics, materials, instrumentation and controls of these complex propulsion systems to ensure their proper function. They also supervise other highly trained nuclear personnel onboard and provide oversight of nuclear propulsion support facilities and shore-based prototypes.

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RADAR AND SONAR OPERATORS

Radar and sonar operators set up, operate and perform preventive maintenance on sophisticated radar and sonar equipment. They use radar and sonar to detect, track, recognize, analyze and identify objects. The radar and sonar systems are also used to direct artillery fires and forecast the weather.

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PHARMACY TECHNICIANS

At military installations around the world, pharmacy technicians work hard to keep service members and their families healthy. Among many responsibilities, these experts work alongside pharmacists to interpret, measure, fill and dispense prescriptions. They also deal directly with patients to ensure that they fully understand their medications and how to correctly implement their treatments.

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IT MANAGERS

IT managers in the Military are responsible for developing, implementing and supporting both short- and long-term IT plans. They create and administer IT policies and procedures, and ensure the Military has the software and programs needed to complete its missions efficiently and effectively.

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STRUCTURAL SPECIALISTS

Building military installations is no small engineering feat. Thankfully, structural specialists are experts in constructing and repairing any structures — from the foundation to finishing touches. Their responsibilities include mastering various materials, tools and equipment to build structures from start to finish, according to blueprints and in compliance with environmental regulation.

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SATELLITE TRANSMISSIONS SYSTEM OPERATORS

In the Military, secure communication is key to mission success. Satellite transmissions system operators help to ensure this by specializing in complex satellite systems that enable command and control communications all over the world. Operators in this role will learn an array of technical skills using spectrum analysis tools and other specialized computer hardware/software programs.

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METEOROLOGICAL SPECIALISTS

Meteorological specialists predict the weather and study the causes of particular weather conditions using information obtained from the land, sea and upper atmosphere. They use the latest forecast technology to predict severe weather, tornadoes, flooding, hurricanes, strong winds, and excessive heat and cold.

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PHYSICAL SCIENTISTS

Physical scientists typically carry out research tasks within a chosen field of study. They primarily conduct experiments or make observations, analyze findings, operate necessary equipment, and develop and test theories. Many physical scientists perform their work in laboratories or offices, while others spend extensive hours outdoors collecting and examining data in the field.

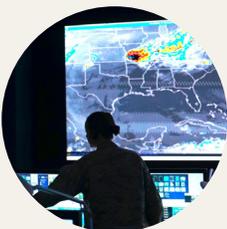
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INTELLIGENCE SPECIALISTS

Intelligence specialists are the gatherers, curators and providers of information in the Military. Their many mission-critical duties include producing intelligence from raw information, assembling intelligence from multiple sources, collecting and analyzing communication signals using sophisticated computer technology, preparing materials for operational missions and much more.

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SPACE SYSTEMS OPERATIONS SPECIALISTS

The largest space program in the world belongs to the U.S. Military, and it's the responsibility of space systems operations specialists to do everything from detecting sea-launched ballistic missiles and tracking satellites to assisting in rocket launches and space flight operations. These highly trained experts must be able to stay calm under pressure and utilize an incredible amount of skill to effectively perform many tasks vital to each mission's success.

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