



List of Careers—Target Moon

Aerospace Engineer

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

Aerospace Engineering Technician

Operate computer systems in order to launch and track air and space vehicles. Use simulators, instruments, and other devices in order to track vehicles. May record and interpret test data.

Airline Pilot and Flight Engineer

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.

Astronomer

Observe, research, and interpret celestial and astronomical events. Increase basic knowledge about these events and apply it to practical problems.

Atmospheric and Space Scientist

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

Calibration and Instrumentation Technician

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

Cartographer and Photogrammetrist

Collect, analyze, and interpret geographic information provided by surveys, aerial photographs, and satellite data. Research, study, and prepare maps for legal, educational, and other purposes. May work with geographic information systems (GIS).

Chemist

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

Emergency Management Specialist

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

Geological Sample Technician

Look for petroleum, gas, or mineral gas by testing geological samples. Analyze the physical and chemical properties of petroleum products to determine the quality of the material.

Geologist

Study composition, structure, and history of the Earth's crust. Examine rocks, minerals, and fossil remains to study the development of the Earth. Apply knowledge of chemistry, physics, biology, and mathematics to explain geological processes. Locate mineral and petroleum deposits and underground water resources.

Mathematician

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.

Mining and Geological Engineer, Including Mining Safety Engineer

Determine the location and plan the extraction of coal, metallic ores, nonmetallic minerals, and building materials, such as stone and gravel. Conduct surveys of deposits or undeveloped mines and plan their development. Examine deposits or mines to determine whether they can be worked at a profit. Make geological and topographical surveys.

Physicist

Conduct research into the phases of physical phenomena. Develop theories and laws based on observation and experiments. Apply laws and theories to industry and other fields.

Statistician

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.

Surveying Technician

Adjust and operate surveying instruments. Compile notes, make sketches and enter data into computers.

Surveyor

Make exact measurements and determine property boundaries. Determine the shape, elevation, or dimension of land. Use land information for engineering, mapmaking, mining, and other purposes.