STEM Careers at the EAA

GIS Analysts
(geographic information systems)

What does a GIS Analyst Do?
A GIS Analyst is a digital cartographer (map maker). They create spatial databases, prepare maps and maintain databases used in engineering, architecture, government, agriculture, and other fields. GIS Analysts can help predict outcomes, reduce risk, and resource management, transportation planning, construction and public services within the local city government and state level.

College Courses
To become a GIS Analyst requires a bachelor's degree. Geometry, Statistics, and Remote Sensing make up some of the recommended coursework.

Recommended High School Courses
Environmental Science, Geography, Statistics, and Computer Science.

Typical Employers
Local, state, and federal government agencies such as NASA, National Oceanic and Atmospheric Administration, and NASA, National Geosciences Center (a reference of GIS analysts to manage land records, and economic development).

Aquatic Biologist

What does a Biologist Do?
A biologist is a scientist who studies living things. A specialist in aquatic biology studies living organisms found in water environments.

College Courses
To be a biologist requires a bachelor's degree, but a master's degree would benefit advancement in this field. Recommended coursework includes Organic Chemistry, Microbiology, Genetic Principles, Ecology.

Recommended High School Courses
Biology, Nutrition & Health, and Environmental Science.

Typical Employers
Departments of Fish and Wildlife are interested in being a biologist. Consumers and Marine Biologists, Universities and clinical research organizations, Sea World and Shedd Aquarium. It requires biologists to help maintain support for their aquatic ecosystems on exhibit.

Geologist

What does a Geologist Do?
A Geologist is a Earth Science specialists who studies the Earth and how it changes. This is done by looking at events, processes, and materials. Geologists study how rocks form and how they interact with the environment. A type of geologist, a hydrologist, studies how water moves through the earth and the Earth.

College Courses
To become a Geologist, study specific fields (external to the department of Geology). A specific education may be required for specific fields (e.g., American Association of Petroleum Geologists).

Recommended High School Courses
Physics, Chemistry, Earth Science, Natural Resources, Mathematics, Geography, and Environmental Science.

Typical Employers
Private firms such as Valero, Exxon and Shell Oil. Geologists, in some government agencies such as the Department of Energy and the Bureau of Land Management, environmental resource and protection agencies and environmental consulting firms.

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