

STEM Career Project

Pick a STEM career from the list below that sounds interesting, or if you have another in mind just ask Ms. Acree to approve it. Use the choice board to select how you will complete the project.

- **Biologist-** A professional who has specialized knowledge in the field of biology (the study of living things such as plants, animals, and bacteria), understanding the underlying mechanisms that govern the functioning of biological systems within fields such as health, technology and the environment.
- **Bioacoustic Researcher-** Bioacoustic researchers study the sounds produced by or that affect living beings. They study animal communication, the production of sound, how animals "hear" and the effects of man-made (anthropogenic) noise on animals.
- **Aerospace Engineer-** Aerospace engineers design, build and test aircraft, missiles and spacecraft. They carry out basic and applied research, test new equipment and materials, and recommend improvements and techniques. Aerospace engineers commonly work on national defense projects and may need security clearance or other high level permits.
- **Food scientist-** Food science is the basic science and applied science of food; its scope starts at overlap with agricultural science and nutrition and leads through the scientific aspects of food safety and food processing, informing the development of food technology.
- **Entomologist-** Did you know that insects outnumber all other life on Earth, combined? Therefore, there is a lot to study for an entomologist! Entomologists study insects: their relationships with other animals, their environments and with humans. Most entomologists specialize in a particular type of insect, such as pollinators, ants or spiders.
- **Chemical Engineer-** Chemical engineers solve problems that involve the production or use of chemicals (such as pesticides, medicines, food, etc.). They design and test processes, equipment, and chemicals for industrial production.
- **Nutritionist-** A nutritionist is a person who advises others on matters of food and nutrition and their impacts on health. Some people specialize in particular areas, such as sports nutrition, public health, or animal nutrition, among other disciplines.
- **Doctor/ Physician Assistant/ Pediatrician/ Surgeon/ Nurse/ Physical Therapist/ other jobs in the medical field**
- **Agriculture Consultant-** Agriculture is the art and science of cultivating the soil, growing crops and raising livestock. We provide leadership on food, agriculture (growing and production of food), natural resources, rural development, nutrition, and related issues based on public policy, the best available science, and effective management.
- **Environmental Engineer-** Environmental engineering is the branch of engineering that is concerned with protecting people from the effects of adverse environmental effects, such as pollution, as well as improving environmental quality. Environmental engineers work to improve recycling, waste disposal, public health, and water and air pollution control, according to the U.S. Bureau of Labor Statistics.
- **Herpetologist-** Herpetologists are specialized zoologists. They study the behaviors, geographical distribution, physiology and development of reptiles and amphibians to better understand ecosystems. Many herpetologists conduct research frequently.
- **Forensic Scientist-** forensic science, also known as criminalistics, is the application of science to criminal and civil laws, mainly—on the criminal side—during criminal investigation, as governed by the legal standards of admissible evidence and criminal procedure.
- **Botanist-** Botanists study various aspects of plants. For example, they may study their physiological processes such as photosynthesis at the molecular level, the evolutionary history and relationships of plants, or their current relationships with their environments.