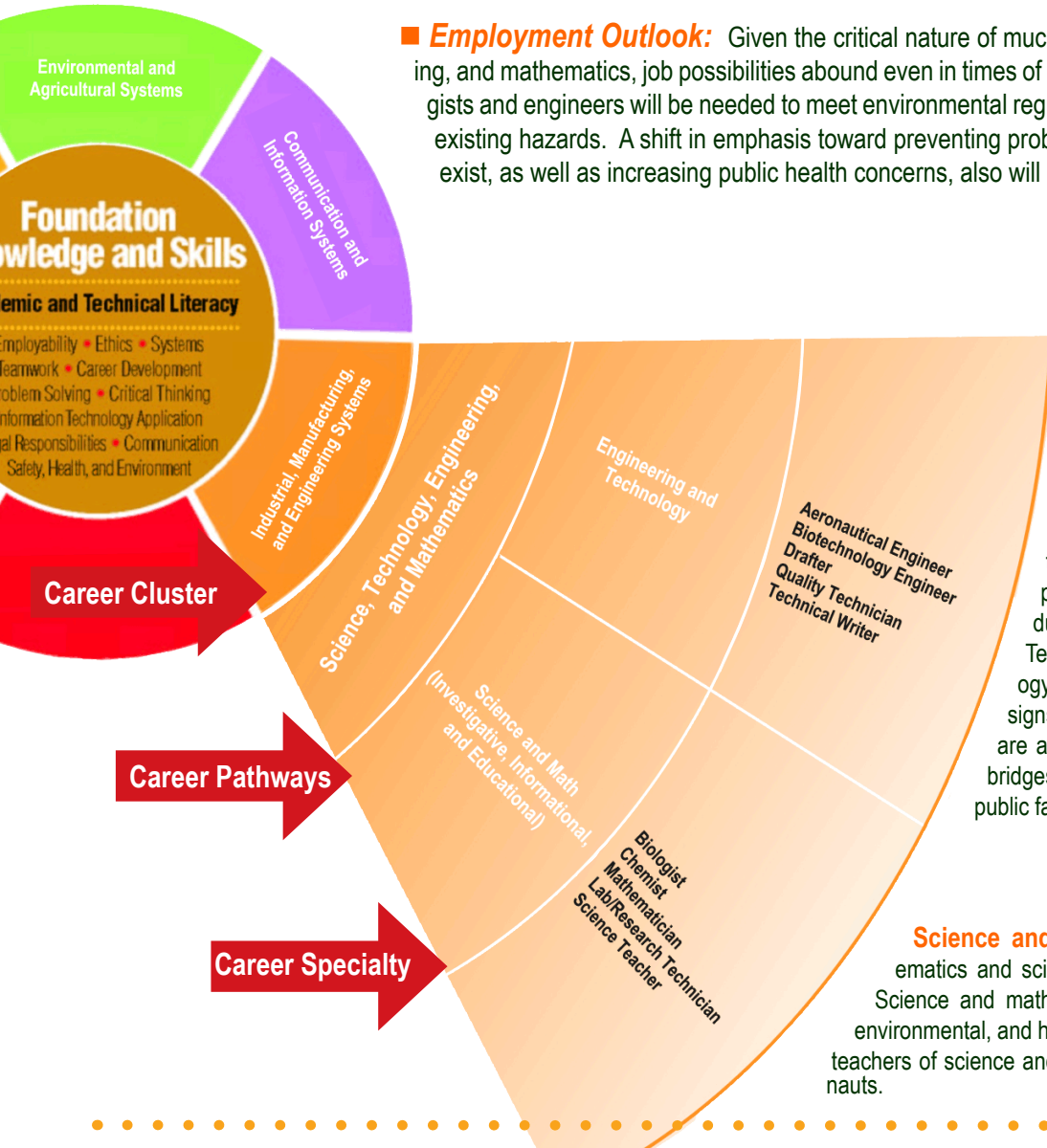




■ **Cluster Description:** A career in science, technology, engineering, or mathematics is exciting, challenging, and ever-changing. Learners who pursue this cluster will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

■ **Employment Outlook:** Given the critical nature of much of the work in science, technology, engineering, and mathematics, job possibilities abound even in times of economic downturn. More scientists, technologists and engineers will be needed to meet environmental regulations and to develop methods of cleaning up existing hazards. A shift in emphasis toward preventing problems rather than controlling those that already exist, as well as increasing public health concerns, also will spur demand for these positions.



### ■ Pathway Descriptions

**Engineering and Technology** workers apply mathematics, science, and technology concepts to solve problems quantitatively in engineering projects involving design, development, or production in various technologies. Engineers and Technologists are involved with advancing technology and continually improve and update product designs and optimize the manufacturing process. They are also involved in improving or building new roads, bridges, water, and pollution control systems, and other public facilities

**Science and Mathematics** workers apply essential mathematics and science content and skills in a real world context. Science and mathematics occupations include those in physical, environmental, and human endeavors. Career possibilities range from teachers of science and mathematics to lab technicians to NASA astronauts.

### Cluster Facts