### Sample Career Specialties / Occupations

- Aerospace Engineer*
- Aeronautical Engineer*
- Agricultural Engineer*
- Agricultural Technician*
- Application Engineer*
- Architectural Engineer*
- Automotive Engineer*
- Biomedical Engineer*
- Biotechnology Engineer*
- Chemical Engineer*
- Civil Engineer*
- Communications Engineer*
- Computer Engineer*
- Computer Hardware Engineer*
- Computer Programmer*
- Computer Science Technician*
- Computer Software Engineer*
- Construction Engineer*
- Consultant*
- Development Engineer*
- Drafter*
- Electrical Engineer*
- Electrician*
- Electronics Technician*
- Energy Transmission Engineer*
- Environmental Engineer*
- Facilities Technician*
- Fire Protection Engineer*
- Geothermal Engineer*
- Hazardous Waste Engineer*
- Hazardous Waste Technician*
- Human Factors Engineer*
- Industrial Engineer*
- Industrial Engineering Technician*
- Licensing Engineer*
- Manufacturing Engineer*
- Manufacturing Technician*
- Manufacturing Processes Engineer*
- Marine Engineer*
- Materials Engineer*
- Materials Lab & Supply Technician*
- Mechanical Engineer*
- Metallurgical Engineer*
- Mining Engineer*
- Naval Engineer*
- Network Technician*
- Nuclear Engineer*
- Ocean Engineer*
- Operations Research Engineer*
- Packaging Engineer*
- Packaging Technician*
- Petroleum Engineer*
- Pharmaceutical Engineer*
- Plastics Engineer*
- Power Systems Engineer*
- Product Design Engineer*
- Project Engineer*
- Project manager*
- Prototype Engineer*
- Quality Engineer*
- Quality Technician*
- Radio/TV Broadcast Technician*
- Radiology Engineer*
- Researcher*
- Safety Engineer*
- Software Engineer*
- Sound Technician*
- Structural Engineer*
- Survey Technician*
- Systems Design Engineer*
- Technical Sales Manager*
- Technical Writer*
- Telecommunications Engineer*
- Textile Engineer*
- Transportation Engineer*
- Nuclear Engineer and Procurement Engineer

### Engineering and Technology

- Analytical Chemist*
- Anthropologist*
- Applied mathematician*
- Archeologist*
- Astronomer*
- Astrophysicist*
- Atmospheric scientist*
- Biologist*
- Botanist*
- CAD operator*
- Cartographer*
- Chemist*
- Communications technologist*
- Conservation scientist*
- Cosmologist*
- Cryptographer*
- Cryostatographer*
- Demographer*
- Dye chemist*
- Ecologist*
- Economist*
- Electronmicroscopist*
- Environmental scientist*
- Expert systems scientist*
- Geneticist*
- Geologist*
- Geophysicist*
- Geoscientist*
- Herpetologist*
- Hydrologist*
- Ichthyologist*
- Inorganic chemist*
- Laboratory Technician*
- Mammologist*
- Marine scientist*
- Materials analyst*
- Materials scientist*
- Mathematician*
- Mathematics*
- Metallurgist*
- Meteorologist*
- Microbial Physiologist*
- Mycologist*
- Nanobiologist*
- Nuclear chemists*
- Nuclear technician*
- Numerical analyst*
- Nutritionist*
- Oceanographer*
- Organic chemist*
- Ornithologist*
- Paleontologist*
- Physicist*
- Polymer scientist*
- Programmer*
- Protein scientist*
- Protozoologist*
- Quality-control scientist*
- Radio chemist*
- Research chemist*
- Research Technician*
- Science Teacher*
- Lab Technician*
- Scientific visualization / graphics expert*
- Spectroscopist*
- Statistician*
- Technical writer*
- Technologist*
- Toxicologist*
- Zoologist*

### Science and Math

- The Common Career Technical Core (CCTC) includes a set of standards for each of the 16 Career Clusters™ and their corresponding Career Pathways that define what students should know and be able to do after completing instruction in a program of study. The CCTC also includes an overarching set of Career Ready Practices that apply to all programs of study. The Career Ready Practices include 12 statements that address the knowledge, skills and dispositions that are important to becoming career ready.