



## CAREER OPPORTUNITIES FOR ENGINEERING PHYSICS MAJORS

### SKILLS & ABILITIES OF THE ENGINEERING PHYSICS MAJOR

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#### Communication

- Developing and writing research proposals
- Reviewing scientific literature
- Summarizing research findings
- Informing/explaining/instructing
- Preparing technical reports

#### Technical

- Designing Equipment
- Observing data/things
- Identifying and classifying materials/specimens
- Designing/using computer simulations
- Using instruments

#### Computation and Mathematical

- Measuring distance/sizes/relationships
- Performing calculations
- Mathematical modeling
- Maintaining records
- Utilizing mathematical formulas

#### Investigation

- Defining research problems
- Developing a research model
- Establishing a research model
- Gathering/analyzing data
- Seeing relationships among factors

### POTENTIAL CAREERS

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#### Government

- Acoustics Physicist
- Aerodynamist
- Air Traffic Controller
- Biophysicist
- Chemical Physicist
- Computer Specialist/Scientist/Programmer
- Health Physicist
- Fiber Optic Engineer
- Geophysicist
- Laser Engineer
- Molecular Physicist
- Nuclear Physicist
- Quality Assurance Specialist
- Research Physicist
- Solid Earth/Solid State Physicist
- Teacher/Professor
- Technical Writer

#### Private

- Acoustics Physicist
- Agricultural Scientist
- Astronomer
- Astrophysicist
- Fluids Physicist
- Geophysicist
- Health Physicist
- Hydrologist
- Mathematician
- Medical Device Designer
- Optical Physicist
- Plasma Physicist
- Salesperson/Scientific Apparatus
- Seismologist
- Solid Earth/Solid State Physicist
- Stratigrapher
- Technical Writer

## WORK ENVIRONMENTS

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Scientific research and development services  
Colleges, universities, and professional schools; state, local, and private  
Federal government  
Hospitals; state, local, and private  
Management, scientific, and technical consulting services

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## ADDITIONAL RESOURCES

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[Xavier University Physics Department](#)  
[National Science Foundation](#)  
[O\\*NET OnLine](#) has detailed descriptions of the world of work  
[American Institute of Physics](#)

*Sources: The College Majors Handbook (Fogg, Harrington, & Harrington, 2012), University of Kansas University Career Center, Occupational Outlook Handbook*