

# What Can I Do with a Major in...

## Physics

### Possible Career Options

(some career areas require advanced education)

Agricultural Scientist  
Air Traffic Control Specialist  
Applied Physicist  
Astronomer  
Astrophysicist  
Automotive Engineer  
Computer Programmer  
Design Engineer  
Environmental Analyst  
Environmental Health Specialist  
Forensic Scientist  
Geologist  
Geophysicist  
Health Physicist  
Industrial/Institutional Buyer  
Technician  
Mathematician  
Metallurgical Engineer  
Meteorologist  
Nuclear Medicine Technologist  
Occupational Safety Specialist  
Oceanographer  
Physicist  
Plasma Physicist  
Project Manager  
Quality Control Manager  
Research Assistant  
Research & Development Engineer  
Sales Engineer  
Science Laboratory Technician  
Semi-Conductor Process Engineer  
Software Engineer  
Solid State Physicist  
Systems Analyst  
Teacher, Science/Math  
Technical Illustrator  
Technical Writer/Communicator  
Television Chief Engineer  
Test Engineer

### Leadership/Management Skills

- Identifying people who can contribute to the solution of a problem or task
- Unwillingness to automatically accept the status quo
- Identifying priorities and parameters

### Communication/Writing Skills

- Comprehending written material
- Writing factual material clearly and concisely
- Summarizing

### Research/Analytical Skills

- Manipulating information using expertise in mathematics
- Breaking down principle into parts
- Perceiving and defining cause and effect relationships
- Applying appropriate methods to test the validity of data
- Formulating questions to clarify a particular problem or issue using laboratory techniques
- Designing an experiment, plan or model that systematically defines a problem

### Artistic/Creative Skills

- Designing and using audio-visual aids

### Other Skills

- Using tools
- Using computers

## Print and Web Resources

### OCS Books

*Alternative Careers in Science*

*Careers for Number Crunchers and Other Quantitative Types*

*Careers for Puzzle Solvers and Other Methodical Types*

*Careers in Science*

*Guide to Nontraditional Careers in Science*

*Physical Sciences and Mathematics*

*To Boldly Guide: A Practical Career Guide for Scientists*

### Online Career Resources

*Career Information*

[www.careercornerstone.org/physics/physics.htm](http://www.careercornerstone.org/physics/physics.htm)

*Careers Using Physics*

[www.spsnational.org/cup/](http://www.spsnational.org/cup/)

*Occupational Outlook Handbook*

[www.bls.gov/oco/ocos052.htm](http://www.bls.gov/oco/ocos052.htm) (Physicists)

[www.bls.gov/oco/ocos049.htm](http://www.bls.gov/oco/ocos049.htm) (Materials Scientist)

[www.bls.gov/oco/ocos027.htm](http://www.bls.gov/oco/ocos027.htm) (Engineers)

[www.bls.gov/oco/ocos043.htm](http://www.bls.gov/oco/ocos043.htm) (Mathematicians)

### Internship Electronic Resources

*After College*

[www.aftercollege.com](http://www.aftercollege.com)

*Idealist and Action Without Borders*

[www.idealists.org](http://www.idealists.org)

*Local Internships*

[www.hope.edu/knowhope/internships/index.cgi](http://www.hope.edu/knowhope/internships/index.cgi)

### Employment Opportunity Electronic Resources

*American Institute of Physics Career Services*

[www.aip.org/careersvc](http://www.aip.org/careersvc)

*American Physical Society*

[www.aps.org/jobs/index.cfm](http://www.aps.org/jobs/index.cfm)

*Physics Today*

[www.physicstoday.org/jobs/](http://www.physicstoday.org/jobs/)

*Spotlight on Careers*

[www.spotlightoncareers.org](http://www.spotlightoncareers.org)

**More resource links are available at the Office of Career Services website:**

[www.hope.edu/student/career](http://www.hope.edu/student/career)

## Professional Associations

**Acoustical Society of America**

<http://asa.aip.org/>

**American Association for the Advancement of Science**

[www.aaas.org](http://www.aaas.org)

**American Astronomical Association**

[www.aas.org](http://www.aas.org)

**American Institute of Aeronautics and Astronautics**

[www.aiaa.org](http://www.aiaa.org)

**American Institute of Physics**

[www.aip.org](http://www.aip.org)

**American Nuclear Society**

[www.ans.org](http://www.ans.org)

**American Physical Society**

[www.aps.org](http://www.aps.org)

**Biophysical Society**

[www.biophysics.org](http://www.biophysics.org)

**Federation of American Scientists**

[www.fas.org](http://www.fas.org)

**National Academy of Sciences**

[www.nas.edu](http://www.nas.edu)

**National Science Foundation**

[www.nsf.gov](http://www.nsf.gov)

## Hope Graduates in the Physics World

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Aerospace Engineer .....	NASA Johnson Space Center
Agricultural Statistician .....	USDA—National Agriculture Statistics Service
Application Development Engineer .....	GE Medical Systems
Associate Engineering Consultant .....	Eli Lilly and Company
Associate Technology Principle .....	Kraft General Foods Foundation
Chief Engineer .....	The Boeing Company
Cost Analyst .....	Northstar Aerospace
Director of Operations .....	Ferro Pfanstiehl Labs
Engineer .....	Apple Computer
Environmental Scientist.....	Herst & Associates, Inc.
Forensic Scientist.....	Illinois State Police
Geophysicist .....	U.S. Geological Survey
GM Commercial Development Manger for Interiors .....	Johnson Controls, Inc.
Health Physicist, Radiological Protection .....	U.S. Environmental Protection Agency
Hydrologist.....	McLaren/Hart
Industrial Hygienist .....	Sun Chemical
Lab Analyst.....	Brighton Analytical
Lab Director.....	Speckin Forensic Lab
Lead Research Scientist .....	3M
Licensing Manager.....	Procter & Gamble
Petroleum Engineer .....	American Petrofina, Inc.
Physicist .....	Lockheed Martin Corporation
President .....	Ingredient Techniques, Inc.
Principle Engineer.....	Siemens Dematic
Process Engineer .....	Polaris Industries
Research Associate .....	Colgate-Palmolive Company
Research Scientist .....	Cayman Chemical Company
Research Scientist .....	Donnelly Corporation
Research Scientist .....	Eastman Kodak Company
Research Scientist .....	Ford Motor Company
Research Supervisor .....	ExxonMobil
Senior Audio Post Production Engineer .....	Doner Advertising
Senior Engineer .....	Applied Research Associates
Senior Process Engineer.....	Intel Corporation
Senior Project Manager.....	General Motors
Senior Research Associate.....	Brewer Science, Inc.
Senior Research Physicist.....	NASA Lewis Research Center
Senior Scientist.....	Molecular Design Limited
Senior Software Architect .....	McGraw Hill Companies
Senior Vice President of Brand Strategy.....	Chemistri
Technical Systems Consultant .....	Acoustics by Design
Technical Writer .....	Adobe Systems