

What can I do with a major in *Physics*?

Overview

- Physics is the most fundamental of all the natural sciences, and its applications extend even to other areas of human endeavor. Physics is the study of the natural world based on quantitative observations and experiments.

- Physics attempts to discover simple rules by which observations of many different situations can be correlated within a common framework of fundamental ideas (physical laws). Physical laws and theories have profound influence on how we view our universe and ourselves. Ernest Rutherford said, "In science, there is only physics; all the rest is stamp collecting." Physics gets to the roots of all physical phenomena. If you can think physics, you can think anything!

Career Titles

▪ Acoustics Physicist	▪ Fire Prevention and Protection Engineer	▪ Photo Optic Technician
▪ Aerodynamist	▪ Fluids Physicist	▪ Photogrammetrist
▪ Aeronautical Engineer	▪ Forensic Scientist	▪ Photonics Engineer
▪ Aerospace Engineer	▪ Genetic Engineer	▪ Physician
▪ Agriculture Scientist	▪ Geodesist	▪ Physicist
▪ Air Craft Developer	▪ Geographical Data Technician	▪ Physics Researcher
▪ Air Traffic Controller	▪ Geologist	▪ Physiognomist
▪ Airplane Pilot	▪ Geophysicist	▪ Plasma Physicist
▪ Applied Physicist	▪ Health Physicist	▪ Power Plant Operators
▪ Architect	▪ Hydrodynamic Physicist	▪ Power Systems Engineer
▪ Argonomist	▪ Hydrogeologist	▪ Process Engineer
▪ Astronaut	▪ Hydrologist	▪ Product Safety Engineer
▪ Astronomer	▪ Imaging Technician	▪ Professor
▪ Astrophysicist	▪ Industrial Hygienist	▪ Quality Assurance Specialist
▪ Athletic Performance Trainer	▪ Information Scientist	▪ Quality Control Manager
▪ Atmospheric and Space Scientist	▪ Instrumental Technician	▪ Radiation Protection Specialist
▪ Atmospheric Physicist	▪ Laboratory Technician	▪ Radiographer
▪ Atomic Physicist	▪ Laser Engineer	▪ Radiological Laboratory Director
▪ Attorney	▪ Lawyer, Technology Specialty	▪ Research Assistant
▪ Automotive Engineer	▪ Librarian	▪ Rheologists
▪ Aviation Inspector	▪ Machinist	▪ Safety Manager
▪ Ballistics Experts	▪ Marine Architect	▪ Satellite Data Analyst
▪ Biomedical Engineer	▪ Materials Physicist	▪ Satellite Engineer
▪ Biophysicist	▪ Materials Scientist	▪ Satellite Missions Analyst
▪ Callistics Experts	▪ Mathematician	▪ Science Teacher
▪ Cardiac Imaging Researcher	▪ Mechanical Engineer	▪ Science Technologist
▪ Chemical Physicist	▪ Medical Devices Designer	▪ Science Writer
▪ Civil Engineer	▪ Medical Illustrator	▪ Scientific Apparatus Salesperson
▪ Climatologist	▪ Medical Lab Technician	▪ Scientific Photographer
▪ Clinical Research Coordinator	▪ Medical Physicist	▪ Seismologist
▪ Computational Physicist	▪ Medical Products Designer	▪ Semi-Conductor Process Engineer
▪ Computer Programmer	▪ Metallurgist	▪ Software Analyst/Consultant
▪ Computer Specialist	▪ Meteorological Technician	▪ Software Engineer
▪ Computer System Engineer	▪ Meteorologist	▪ Solar Energy Engineer
▪ Consultant	▪ Microbiologist	▪ Solid State Physicist
▪ Consultant-Management Information Systems	▪ Molecular Physicist	▪ Spectroscopist



OFFICE OF
CAREER & PROFESSIONAL
 DEVELOPMENT

▪ Crime and Intelligence Analyst	▪ Nanotechnologist	▪ Stratigrapher
▪ Crime Laboratory Analyst	▪ National Laboratory Research	▪ Stress Analyst
▪ Cryogenics Specialist	▪ Nuclear Engineer	▪ Systems Analyst
▪ Crystallographers	▪ Nuclear Magnetic Resonance	▪ Teacher
▪ Curator	▪ Nuclear Physicist	▪ Technical Consultant
▪ Design Engineer	▪ Nuclear Power Plant Manager	▪ Technical Illustrator
▪ Electronic Engineer	▪ Nuclear Technician	▪ Technical Salesperson
▪ Electro-Optical Engineer	▪ Occupational Safety Specialist	▪ Technical Writer
▪ Elementary Particle Physics	▪ Oceanographer	▪ Test Engineer
▪ Engineer	▪ Optical Physicist	▪ Water Conservation Specialist
▪ Environmental Analyst	▪ Optometrist	▪ Water Reclamation Specialist
▪ Environmental Health Specialist	▪ Particle Accelerator Operations Analyst	▪ Writer
▪ Environmental Scientist	▪ Petroleum Engineers	▪ Zoologist
▪ Fiber Optic Engineer	▪ Pharmacologist	

Employers

▪ Aerospace Industry	▪ Federal Government	▪ Oilfields
▪ Aircraft & Instrument Manufacturers	▪ Fiber Optic Engineer	▪ Patent Law Firms
▪ Airports	▪ Food & Drug Administration	▪ Patent Office
▪ Architectural Firms	▪ Geological Industry	▪ Petroleum Industry
▪ Astronaut Corps	▪ Government Agencies	▪ Pharmaceutical Companies
▪ Atomic/Nuclear Labs	▪ Health Care Facilities	▪ Planetariums
▪ Automobile Manufacturers	▪ Hospitals	▪ Power Plants
▪ Centers for Disease Control & Prevention	▪ Information Technology Companies	▪ Private Industries
▪ Chemical Manufacturers	▪ Laboratories	▪ Production Facilities
▪ Clinical Research	▪ Launch Sites	▪ Professional and Technical Journals
▪ Colleges and Universities	▪ Libraries	▪ Publishing Companies
▪ Commercial Industry	▪ Manufacturing Companies	▪ Quality Assurance
▪ Computer Companies	▪ Marine Industry	▪ Recycling Plants
▪ Consulting Firms	▪ Medical Schools	▪ Research and Development Departments
▪ Crime Laboratories	▪ Microelectronics Companies	▪ Research Centers
▪ Department of Agriculture	▪ Military	▪ Science Museums
▪ Department of Commerce	▪ Mining and Petroleum Companies	▪ Smithsonian Institution
▪ Department of Defense	▪ Museums	▪ Space Industry
▪ Department of Energy	▪ National Aeronautics & Space Administration	▪ Space Research (NASA)
▪ Department of Health & Human Services	▪ National Bureau of Standards	▪ State and Local Governments
▪ Department of the Air Force	▪ National Institutes of Health	▪ Steel/Metals Industry
▪ Department of the Interior NASA	▪ National Oceanic and Atmospheric Administration	▪ Technical Consulting Firms
▪ Department of Transportation	▪ National Science Foundation	▪ Testing Labs
▪ Educational Institutions	▪ National Transportation Safety Board	▪ TV/Radio Stations
▪ Electrical Equipment Companies	▪ Naval Research Lab	▪ Utilities Companies
▪ Engineering Firms	▪ Nonprofit Foundations	▪ Waste Management Firms



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- Environmental Protection Agency
 - Federal Agencies
 - Observatories
 - Occupational Safety & Health Administration
 - Weather Bureaus
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Skills

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- Ability to apply data
 - Aptitude for accurate details
 - Computer skills/proficiency
 - Cooperative learning
 - Create hypotheses
 - Creative thinking
 - Critiquing and anticipating problems
 - Decision-making and diagnosing
 - Define research problems
 - Design equipment
 - Develop and write research proposals
 - Develop research models
 - Draw meaningful conclusions
 - Establish experimental designs
 - Evaluate ideas
 - Gather/analyze data
 - Identify/classify materials
 - Investigative skills
 - Maintain accurate records
 - Mathematical modeling
 - Oral and written communication skills
 - Organize, analyze and interpret scientific data
 - Perform calculations
 - Prepare technical reports
 - Problem-solving
 - Review scientific literature
 - See relationships among factors
 - Summarize research findings
 - Use instruments
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Salary

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- NACE (National Association of Colleges and Employers) Summer 2012 Salary Survey Average Offers:
- **Physics Bachelor's Degree: \$32,900**
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The job titles and employers listed below are a sample of the results from the annual St. Norbert College Career Services graduate follow-up survey for the Classes of 2003-2010

Graduate Information: Job Titles

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- Teacher
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Graduate Information: Employers

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- Green Bay West High School
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