

BACHELORS ENGINEERING PHYSICS

TOP INDUSTRIES

AY 2021 - 2023

1. Research & National Laboratory
2. Financials
3. Aerospace & Defense
4. Software & Computer Services
5. Consulting

SAMPLE JOB TITLES

AY 2021 - 2023

- Applications Engineer
- Camera Hardware Engineer
- Energy Markets & Innovation Analyst
- Geotech Project Manager
- GNC Engineer
- Instrumentation and Control Engineer
- Optical Engineer
- Quantitative Trader
- Research Assistant
- Software Developer

SAMPLE GRADUATE SCHOOLS

AY 2021 - 2023

- Columbia
- Cornell
- EPFL
- MIT
- Michigan Technological U.
- Princeton
- Stanford
- Univ. of California
- Univ. of Chicago
- Univ. of Miami
- Univ. of Michigan
- Univ. of Washington

SAMPLE HIRING COMPANIES

AY 2017 - 2023

- Amazon
- Apple
- Ascend Analytics
- Bosch
- Brookhaven National Lab
- Capital One
- Celerity Consulting
- EDF US Innovation Lab
- Engineering Systems Inc.
- Environmental Protection Industries
- Epic
- Filos
- General Atomics
- Inspirit AI
- Johns Hopkins Applied Physics Laboratory
- Lawrence Livermore National Laboratory
- Los Alamos National Laboratory
- Raytheon - RTX
- Rocket Lab
- Sandia National Laboratory
- Sinovia Technologies
- Sundberg-Ferar
- Technip Energies
- Texas Instruments - TI
- U.S. Nuclear Regulatory Commission - NRC
- UBS
- University of Michigan

FULL TIME STARTING ANNUAL SALARY

3 YEAR AVERAGE (AY 2021 - 2023)

Average: \$96,400

Min	Median	Max
\$75,000	\$84,000	\$125,000

INTERN HOURLY SALARY

AY 2023

Average: \$29.29

Min	Median	Max
\$18	\$25	\$53

AY = Academic Year
Data is subject to availability. At least 4 data points are required to publish salary data.
The most recent hiring data is published above.

Visit career.engine.umich.edu/career/salary-info for more comprehensive data.

BACHELORS ENGINEERING PHYSICS

SAMPLE ELEVATOR PITCH

Hi, I'm [NAME] and I'm a junior studying Engineering Physics. I am seeking an internship as an operations engineer.

Last summer I interned at John Hopkins Applied Physics Lab where I created and drafted a satellite's takeoff system drawings. Additionally, I am part of the Society of Women Engineers where I host an engineering summer camp for high school students exploring engineering.

My passion for problem-solving and leading others has equipped me with the skills required to thrive in a position at your company. Can you provide further details on the role?

SAMPLE IMPACT STATEMENT

Before - Researched lung cancer cells

After - Determined the optimal amount of radiation needed to remove a small benign lung tumor using scaled-tests and Python.

KEY COURSES

PHYSICS 401 - Intermediate Mechanics; Newtonian and Lagrangian mechanics, Kinematics and dynamics in up to three dimensions, vector analysis, motion under gravity, planetary motion

PHYSICS 405 - Intermediate Electricity & Magnetism; electric force & magnetic force

PHYSICS 406 - Statistical & Thermal Physics; statistical description of systems of particles, thermal interaction, the microscopic basis of macroscopic concepts temperature and entropy

EP Technical Electives - Choose 27 credit hours of engineering electives in discipline of choice

KEY SKILLS

- Mathematical and physical thinking
- Analytical skills and critical thinking
- Creative solutions of challenging engineering problems
- Leadership
- Programming; instrutrial software
- Advanced manufacturing
- Scientific communication

SAMPLE EXTRACURRICULARS

Society of Physics Students

Health Physics Society

American Chemical Society (ACS)

American Physics Society

Biophysics Club

Association for Computing Machinery

Society for Women in Physics

Society of Engineering Science

Materials Research Society (MRS)

