

# BACHELORS ENGINEERING PHYSICS

## TOP INDUSTRIES 2021-2022

1. Software & Computer Services
2. Research & National Laboratory
3. Consulting
4. Education/Academia
5. Technology Hardware & Equipment

## SAMPLE JOB TITLES 2016-2022

- Automation Engineer
- Energy Markets & Innovation Analyst
- Engineering Consultant
- Geotech Project Manager
- Operations Associate
- Research Assistant
- Software Developer
- Software Engineer
- Verification Engineer

## SAMPLE GRADUATE SCHOOLS 2017-2022

- Case Western Reserve
- Columbia
- Cornell
- Dartmouth
- Harvard
- MIT
- Northwestern
- Stanford
- Univ. of California
- Univ. of Maryland
- Univ. of Michigan
- Univ. of Washington
- Univ. of Wisconsin

## SAMPLE HIRING COMPANIES 2017-2022

- Amazon
- Apple
- Ascend Analytics
- Bosch
- Calspan
- Capital One
- Celerity Consulting Group
- Duo Security
- EDF US Innovation Lab
- Environmental Protection Industries
- Filos
- General Atomics
- Ginkgo Bioworks
- Inspirit AI
- Johns Hopkins Applied Physics Lab
- Lawrence Berkeley National Lab
- Lockheed Martin
- Narrative Science
- Sandia National Lab
- Sinovia Technologies
- Sundberg-Ferar
- Texas Instruments
- Uber

## FULL TIME ANNUAL SALARY 2020-2022

Average: \$99,800

Min	Median	Max
\$75,000	\$101,000	\$125,000

## INTERN MONTHLY SALARY 2020-2022

Average: \$4,233

Min	Median	Max
\$2,080	\$3,917	\$7,627

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](https://career.engine.umich.edu/career/salary-info) for more comprehensive data.

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## 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 discusses topics such as Newtonian and Lagrangian mechanics: Kinematics and dynamics in up to three dimensions, vector analysis; motion under gravity, planetary motion

**PHYSICS 405** - Intermediate Electricity & Magnetism covers electric force & magnetic force

**PHYSICS 406** - Statistical & Thermal Physics covers topics such as 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)**

