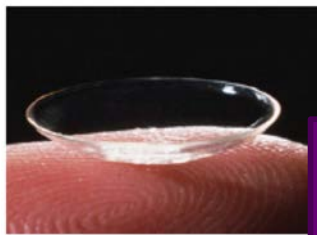


Prof. Marjorie Olmstead
olmstd@uw.edu



'Butterfly Wings on Every Eyelid' - L'Oreal

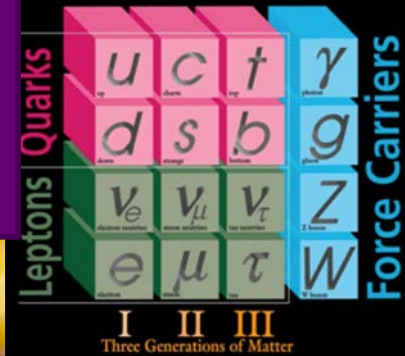


Contact Lens



What can I do with my physics degree?

ELEMENTARY PARTICLES



Battery-powered Car



Solar Power



MRI of Brain Cancer

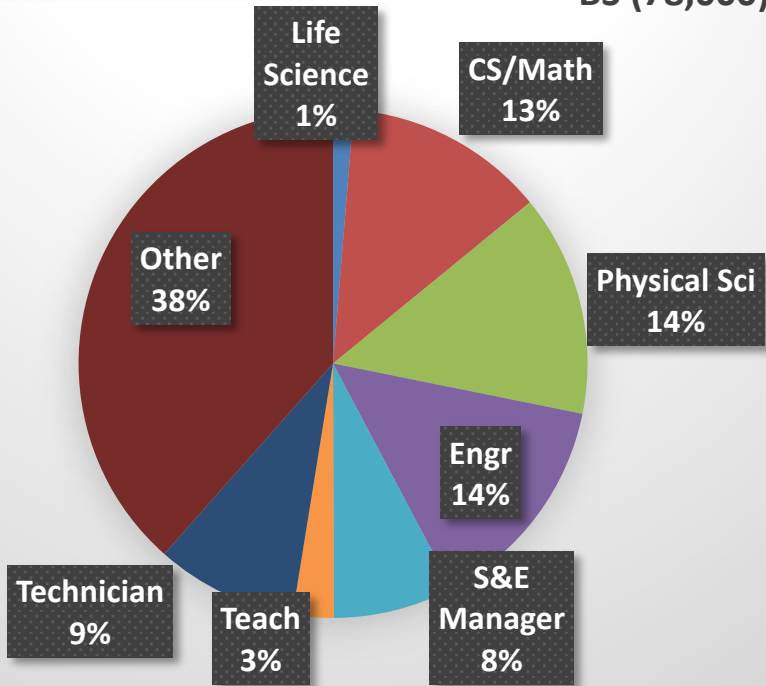


SPS Career seminar 27 Feb 2018

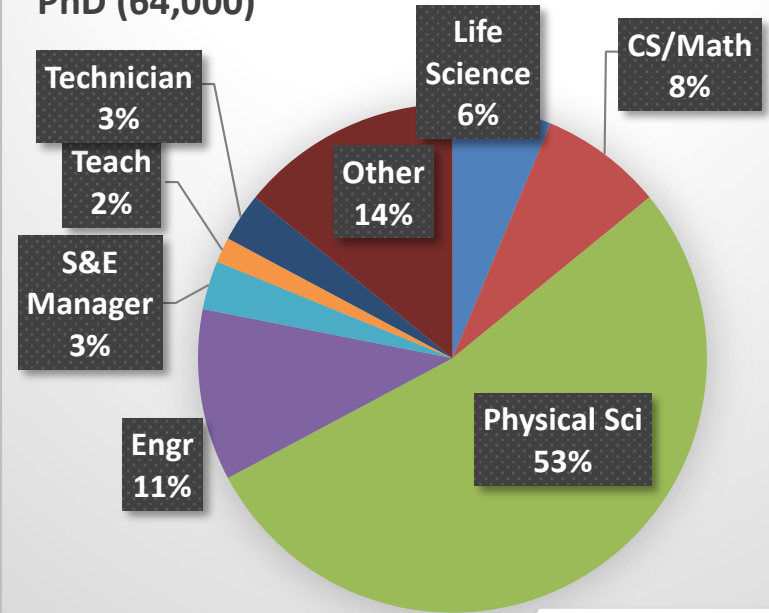
What do Career Physicists Do?

Highest Degree
BS Physics

BS (78,000)

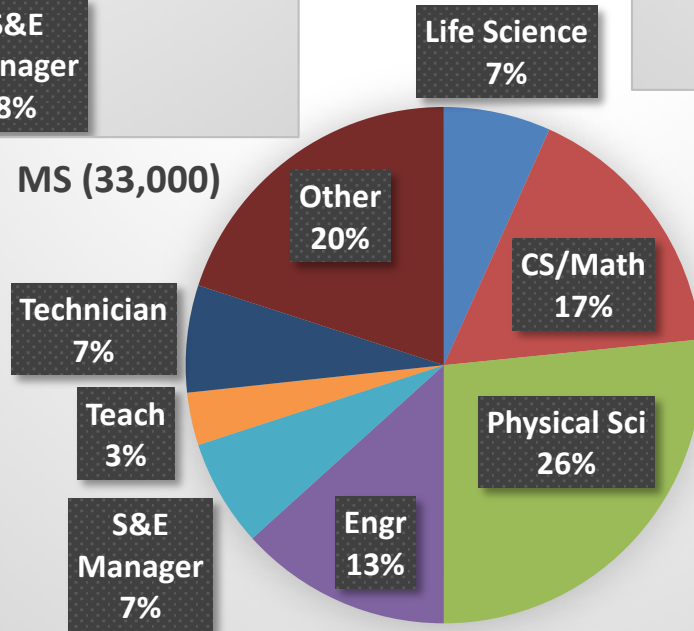


PhD (64,000)



Highest Degree
PhD Physics

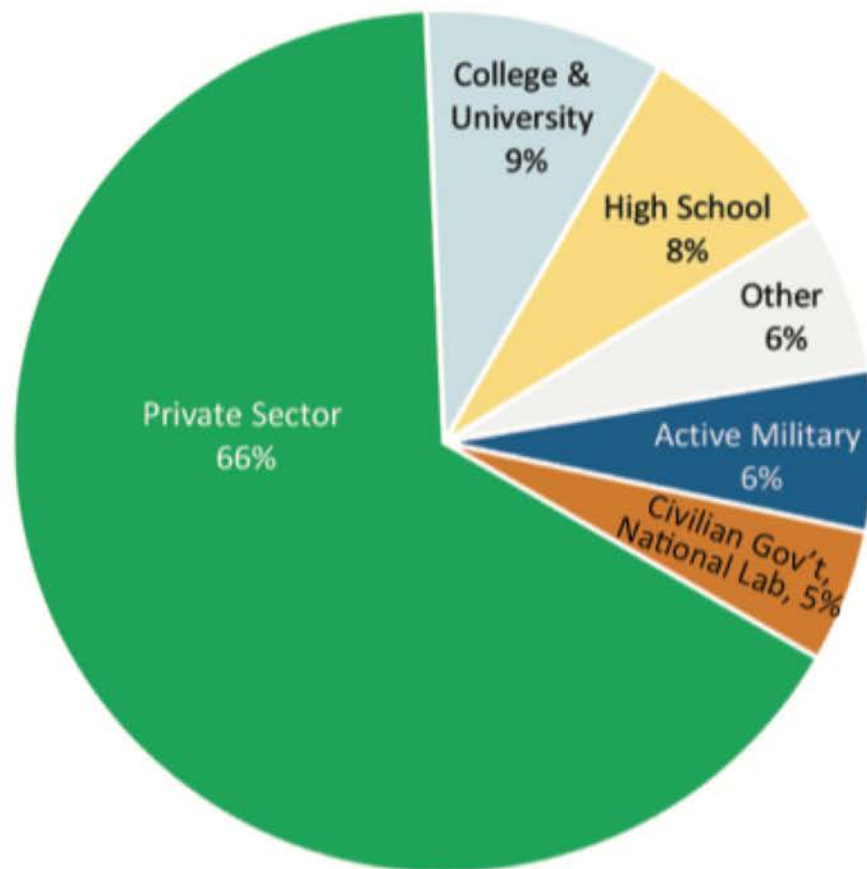
MS (33,000)



Highest Degree
MS Physics

Physics jobs span the economy

Initial Employment Sectors of New Physics Bachelors,
Classes of 2015 & 2016 Combined



www.aip.org/statistics

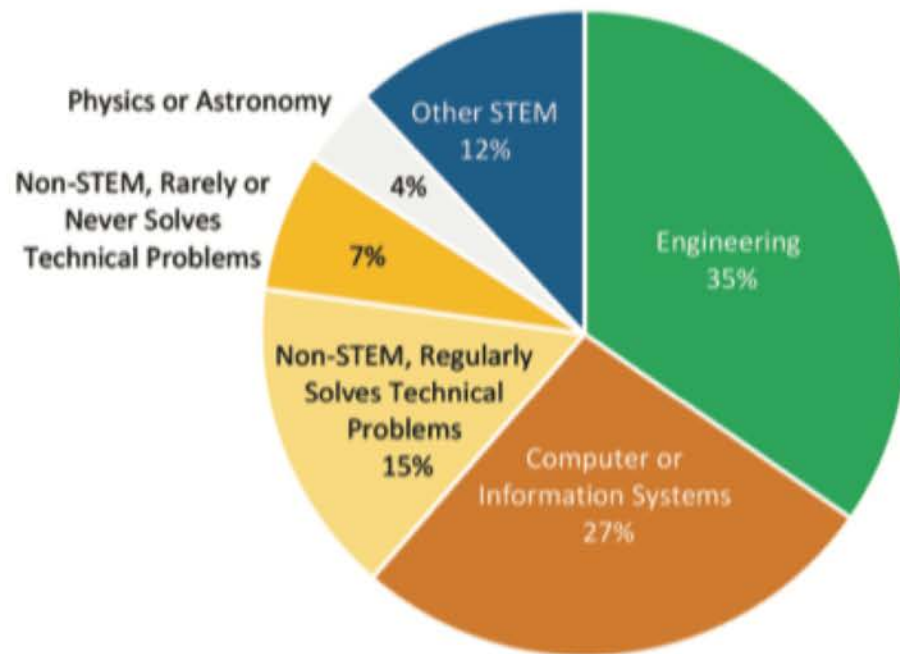
Note: 47% of new physics bachelors were employed in the winter following the year in which they received their degree.

29% Phys/Astro grad school
10% Engineering grad school
10% other schooling
4% Unemployed

Figure 2. Initial employment of physics's bachelor's degree recipients for the combined classes of 2015 & 2016

Private Sector Job Areas – 1 Yr Post B.S.

Field of Employment for New Physics Bachelors Employed in the Private Sector, Classes of 2015 & 2016 Combined



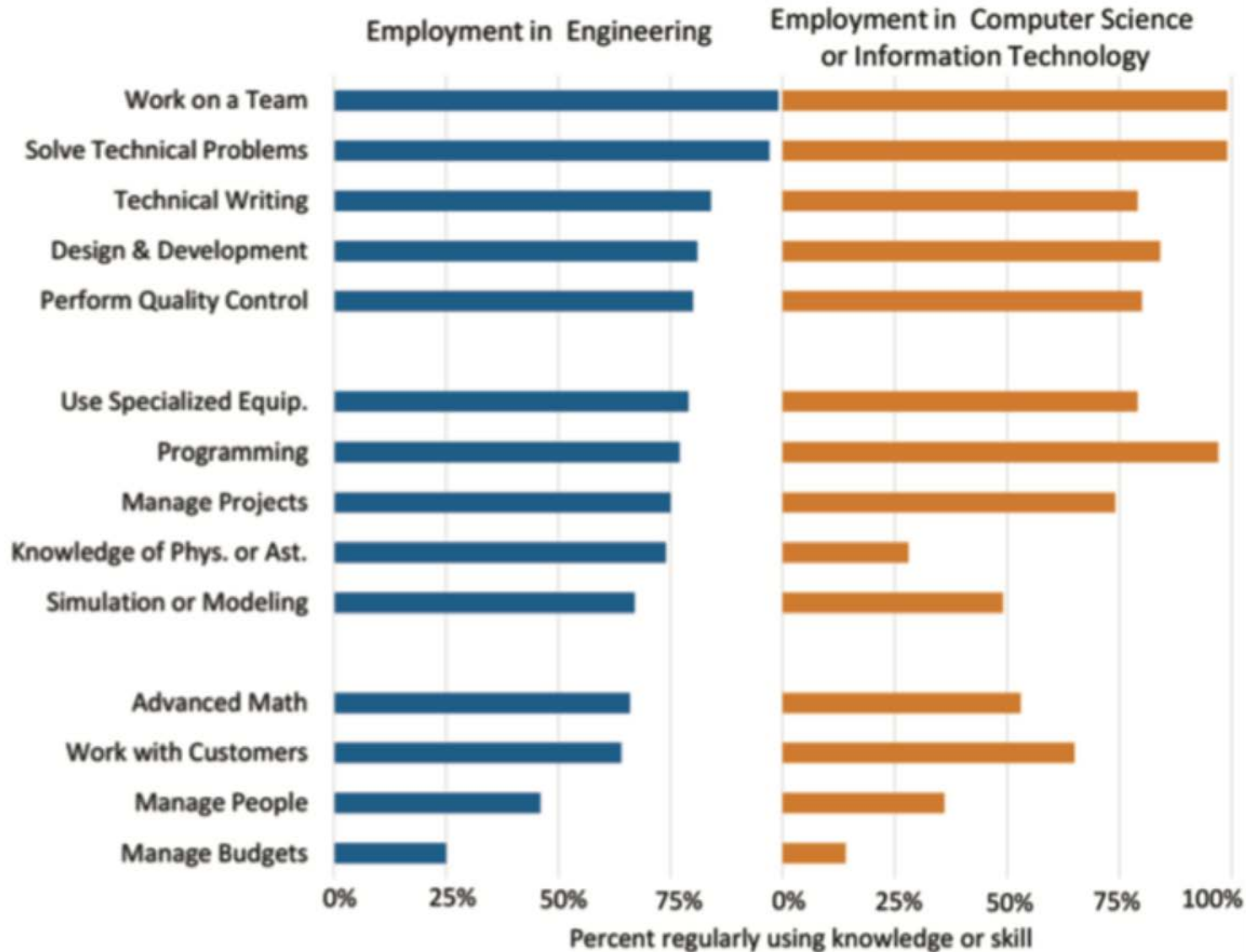
www.aip.org/statistics

STEM refers to natural science, technology, engineering and mathematics. Regularly solving technical problems refers to respondents who selected “Daily”, “Weekly”, or “Monthly” on a four-point scale that also included “Rarely or Never”.

Figure 3. Employment data for physics bachelor’s degree recipients in the private sector. Note that Engineering and Computer Systems comprise 62% of the employment fields for bachelor’s working in the private sector.

Typical Job Skills Utilized

Knowledge and Skills Regularly Used by New Physics Bachelors Employed in the Private Sector, Classes of 2015 & 2016 Combined



Typical Job Titles 1 yr Post B.S.

Engineering

Systems Engineer	Application Engineer
Electrical Engineer	Development Engineer
Design Engineer	Engineering Technician
Mechanical Engineer	Field Engineer
Project Engineer	Process Engineer
Optical Engineer	Process Technician
Manufacturing Engineer	Product Engineer
Manufacturing Technician	Product Manager
Laser Engineer	Research Engineer
Associate Engineer	Test Engineer
Technical Services Engineer	General Engineer

Education

High School Physics Teacher
High School Science Teacher
Middle School Science Teacher
Substitute Science Teacher

Research & Technical

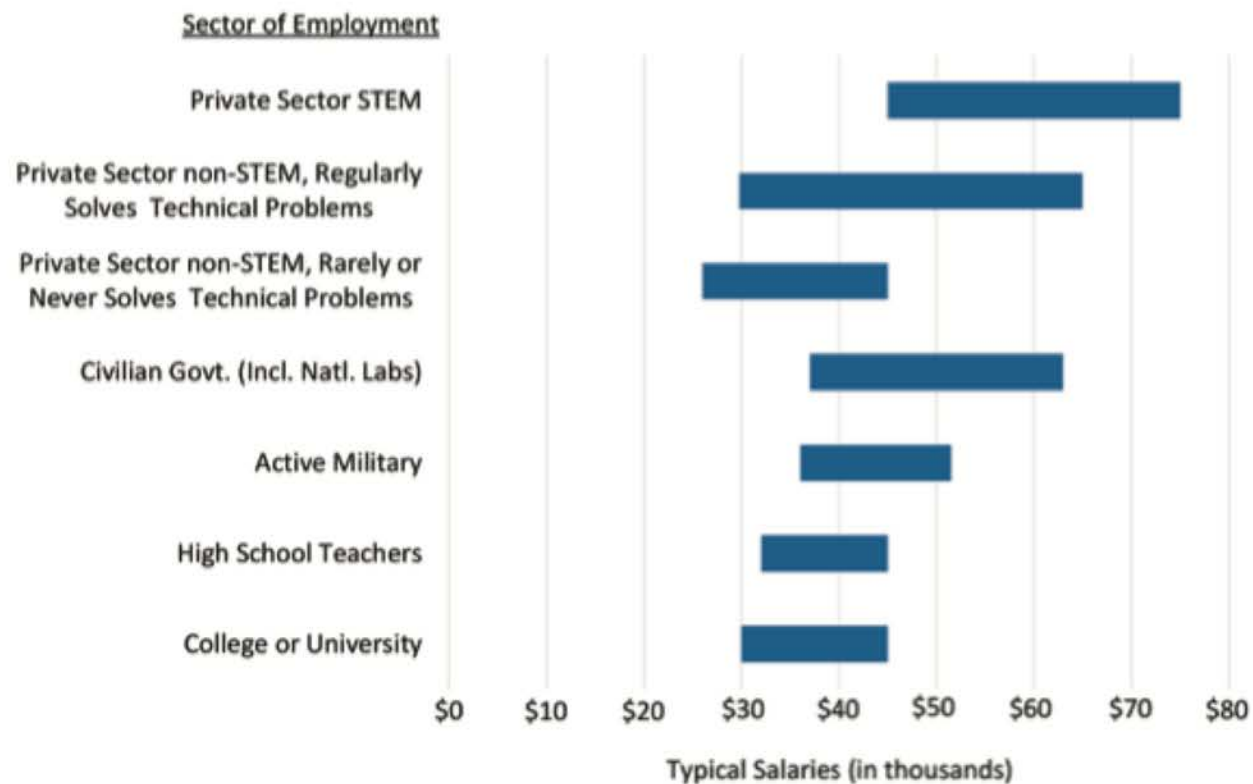
Research Assistant
Research Associate
Research Technician
Lab Technician
Lab Assistant
Accelerator Operator
Physical Sciences Technician

Computer Hardware / Software

Software Engineer
Programmer
Web Developer
IT Consultant
Systems Analyst
Technical Support Staff
Analyst

Typical Starting Salaries

Typical Starting Salaries for New Physics Bachelors,
Classes of 2015 & 2016 Combined



www.aip.org/statistics

Private sector jobs tend to pay more upfront but other jobs, such as teaching, have other benefits.

Figure 6. Typical Starting Salaries for New Physics Bachelors

Figure includes only bachelors in full-time, newly accepted positions. Typical salaries are in the middle 50% i.e., between the 25th and 75th percentiles. STEM refers to positions in natural science, technology, engineering and math. Regularly solving technical problems refers to respondents who selected "Daily", "Weekly", or "Monthly" on a four-point scale that also included "Rarely or Never" when asked how frequently they solved technical problems in their positions.

What resources are available for my job search?

- American Physical Society Careers Page
 - <http://www.aps.org/careers/>
- Society of Physics Students Careers Page
 - <https://www.spsnational.org/career-resources>
- AAAS (Science Magazine) Career Resources
 - <http://www.sciencemag.org/careers/career-resources>
- UW Career Center
 - Drop in at Mary Gates Hall
 - <http://careers.uw.edu/>
- Faculty, Alumni, others in area: see PANEL

National Resources - SPS

SPS Jobs | jobs.spsnational.org

SPS Jobs has job listings appropriate for students seeking employment with a bachelor's degree in physics.

Physics Today Job Resources | www.physicstoday.org/jobs/career_resources SPS Career Resources | www.spsnational.org/career-resources

Visit this Society of Physics Students site for career-related information, including profiles of people working in different careers, advice, and links to related resources.

Who's Hiring Physics Bachelor's? | www.aip.org/statistics/whos-hiring-physics-bachelors

Click on a state to see a list of some of the employers that hired physics bachelor's recipients recently in that state.

AIP Statistics: Skills Physics Bachelor's Use | www.aip.org/statistics/reports/physics-bachelors-initial-employment2014

This link will take you to a report titled, "Physics Bachelor's Initial Employment." Figure 4 in this report shows the skills used by physics bachelor's recipients in their first job. Use these lists when you are thinking about the knowledge and skills you have. Make sure these are highlighted in your resume.

APS Careers Website | www.aps.org/careers

Access a host of career resources at the APS Careers website, including links to the APS Webinar Archive, Career Workshops from annual meetings, links to a professional development guide, and information on Student Travel Awards and Future of Physics Days events at APS national meetings, specifically geared toward undergraduates.

Career Panel

- Patrick Chidsey, Assoc. Director UW Career Center
- Elana Voigt, '14: UG Laboratory Staff, UW Physics
- Naydene Hays: Head Tutor, Olympic College
- Chandler Lougee, '18: Peace Corp
- Travis Yerian, '12: Amazon.
- Marie Scott, '16: Allen Brain Institute
- Cliff Slaughterbeck, PhD '96: Sr. Manager, Allen Brain Institute