

You are earning your BS in physics!

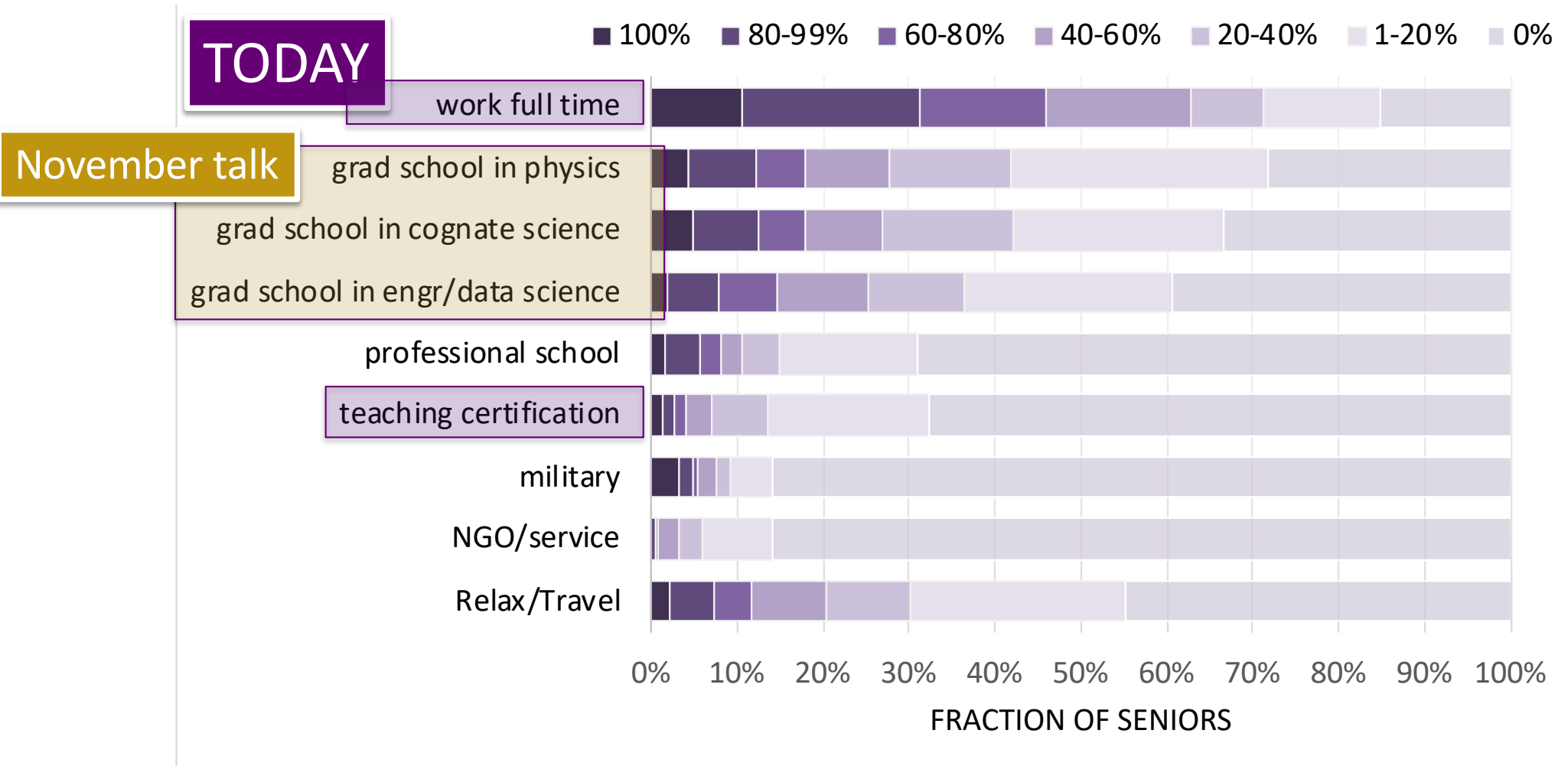
What comes next?

- March 30, 2022
- UW Physics UG Career Panel
- Host: Prof. Marjorie Olmstead



Job vs More School?

- UW Physics: After graduation, what is the probability that any of these choices will be your main activity?

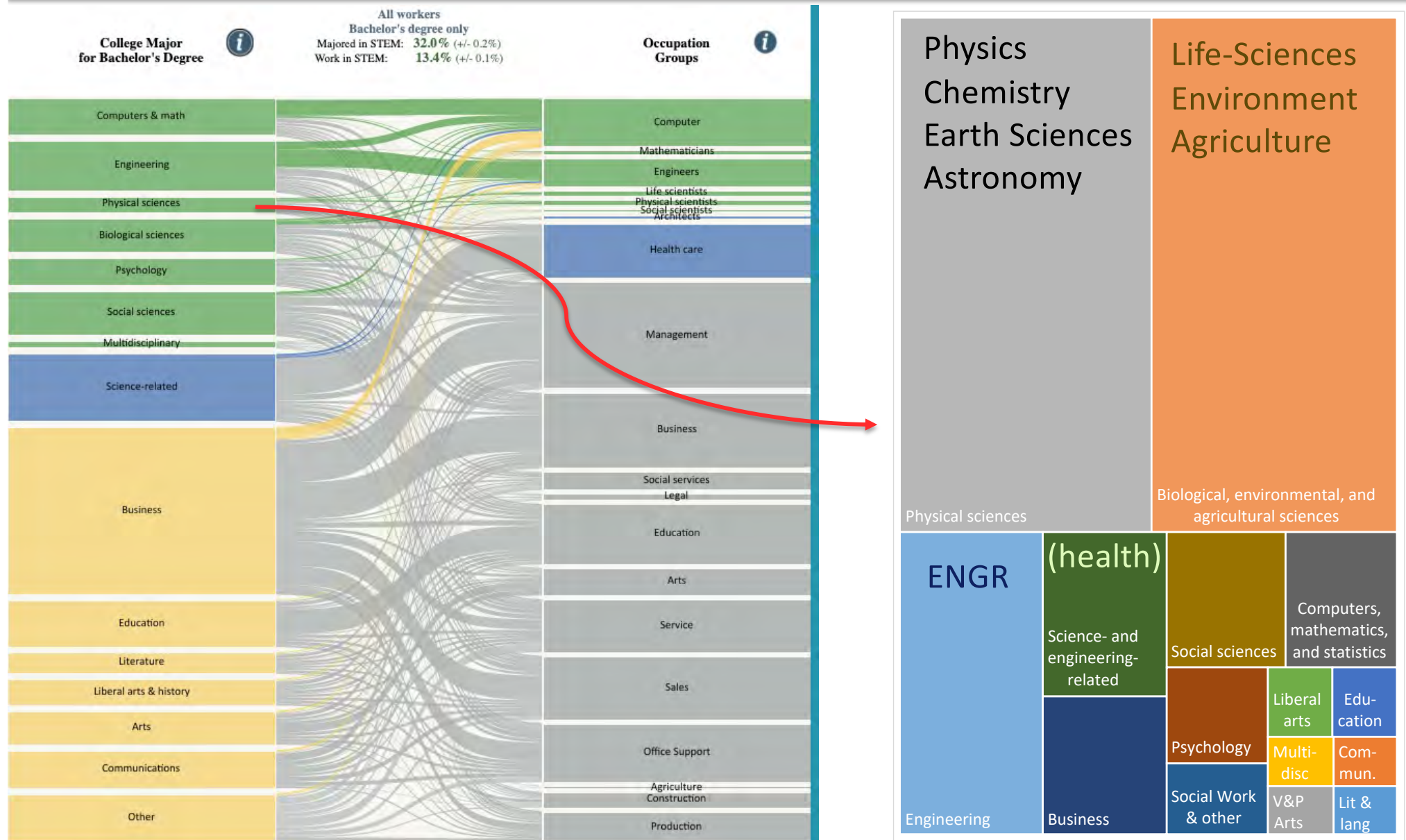


From UW physics senior exit survey AY 21 & 22 (N=386):

Don't Panic: There is a job out there for you

- What can you imagine yourself doing?
 - What skills do you enjoy using? What tasks do you enjoy doing?
 - What drives you up the wall?
 - What are your strengths? Weaknesses?
- Where can you get paid for what you enjoy doing?
 - Research those places – not just the current openings
 - Determine the requirements for your long-term dream job(s), and set about acquiring those qualifications in the next few years
- How do I prepare to market myself to these places?
 - Create one or more resume/CV/Cover letter – tailor to the job
 - Curate your online presence
 - Prepare your “elevator pitch” (oral and email) at various levels
 - NETWORK: Get to know people who can recommend you

Degree – Career Relationships



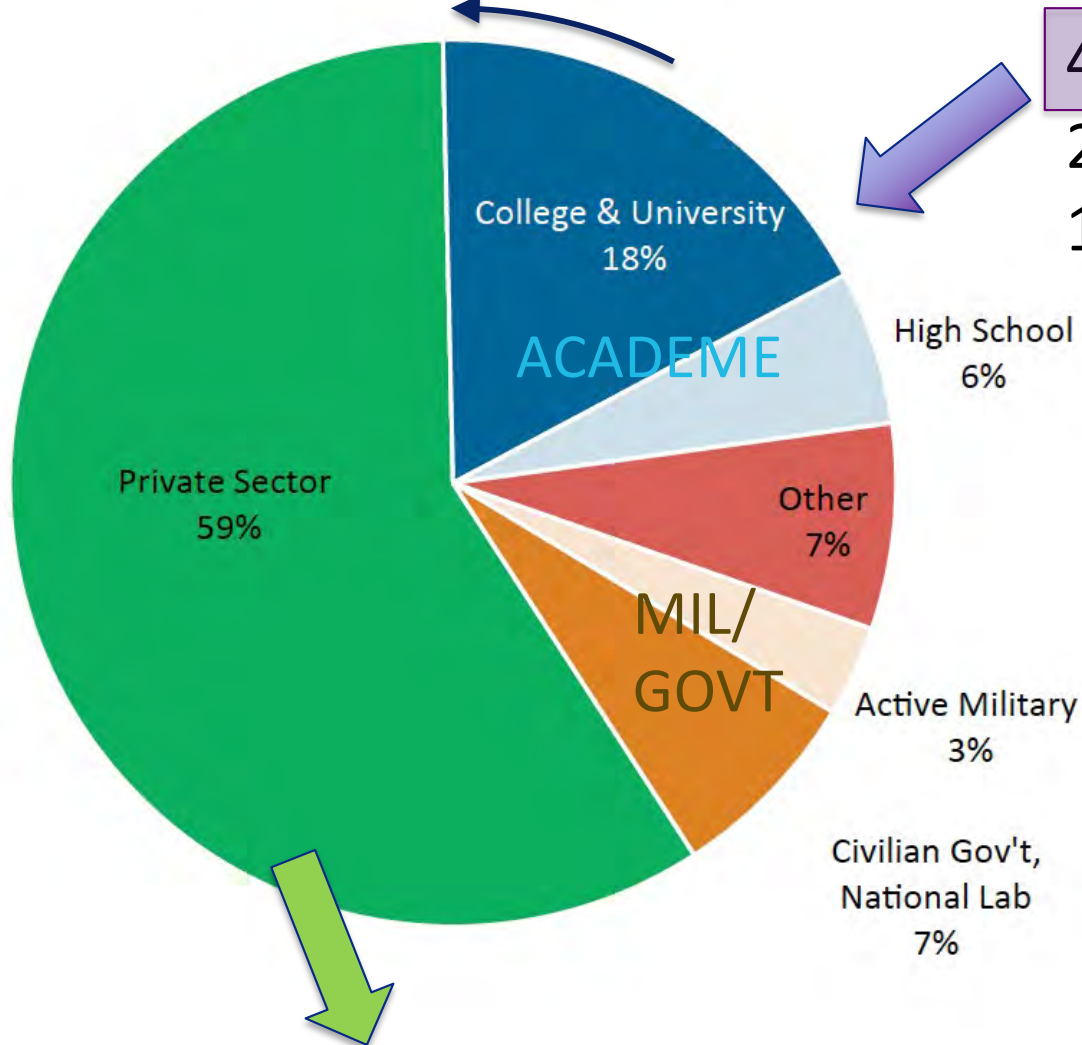
Physics jobs span the economy

National Data from classes of 2019 & 2020

www.aip.org/statistics

Initial Employment Sectors of New Physics Bachelors, Classes of 2019 & 2020 Combined

Change from pre-COVID



46% Employed

29% Phys/Astro grad school

10% Engineering grad school

9% Other schooling

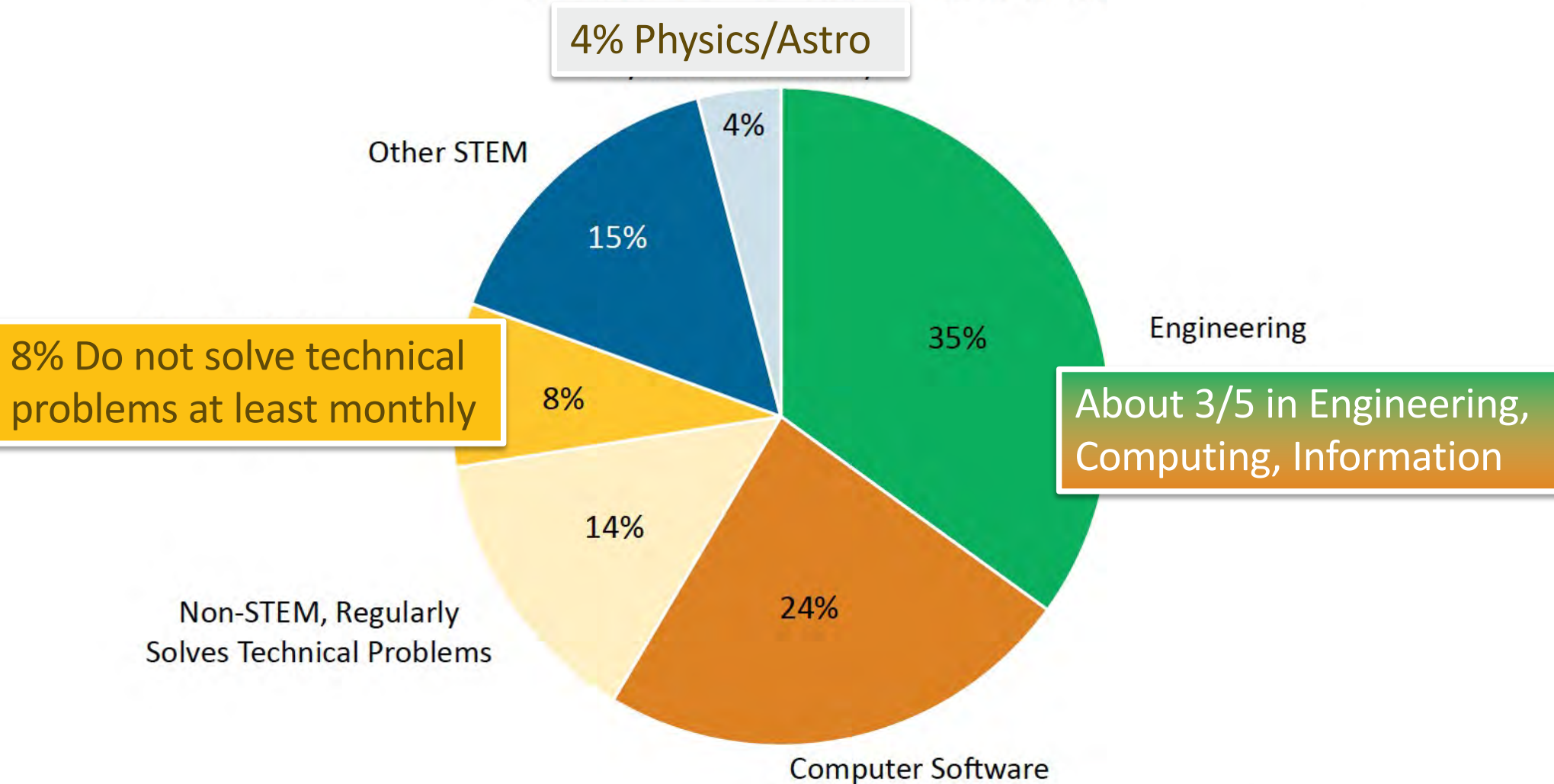
6% Unemployed

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

National Data from classes of 2019 & 2020

www.aip.org/statistics

Field of Employment for New Physics Bachelors in the Private Sector, Classes of 2019 & 2020 Combined



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".

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

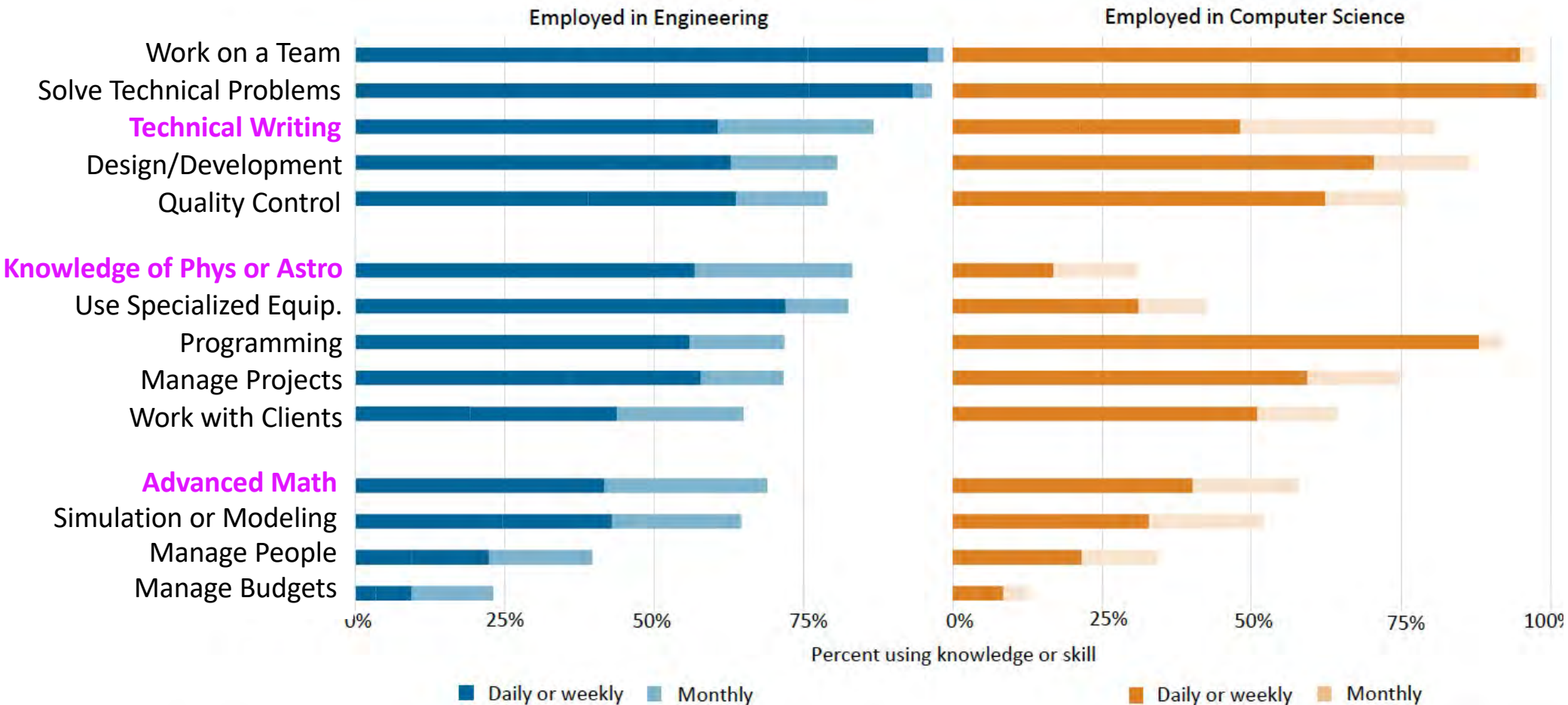
Computer Hardware / Software

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

Job Skills Used by Physics B.S. 1 year out

National Data from classes of 2019 & 2020

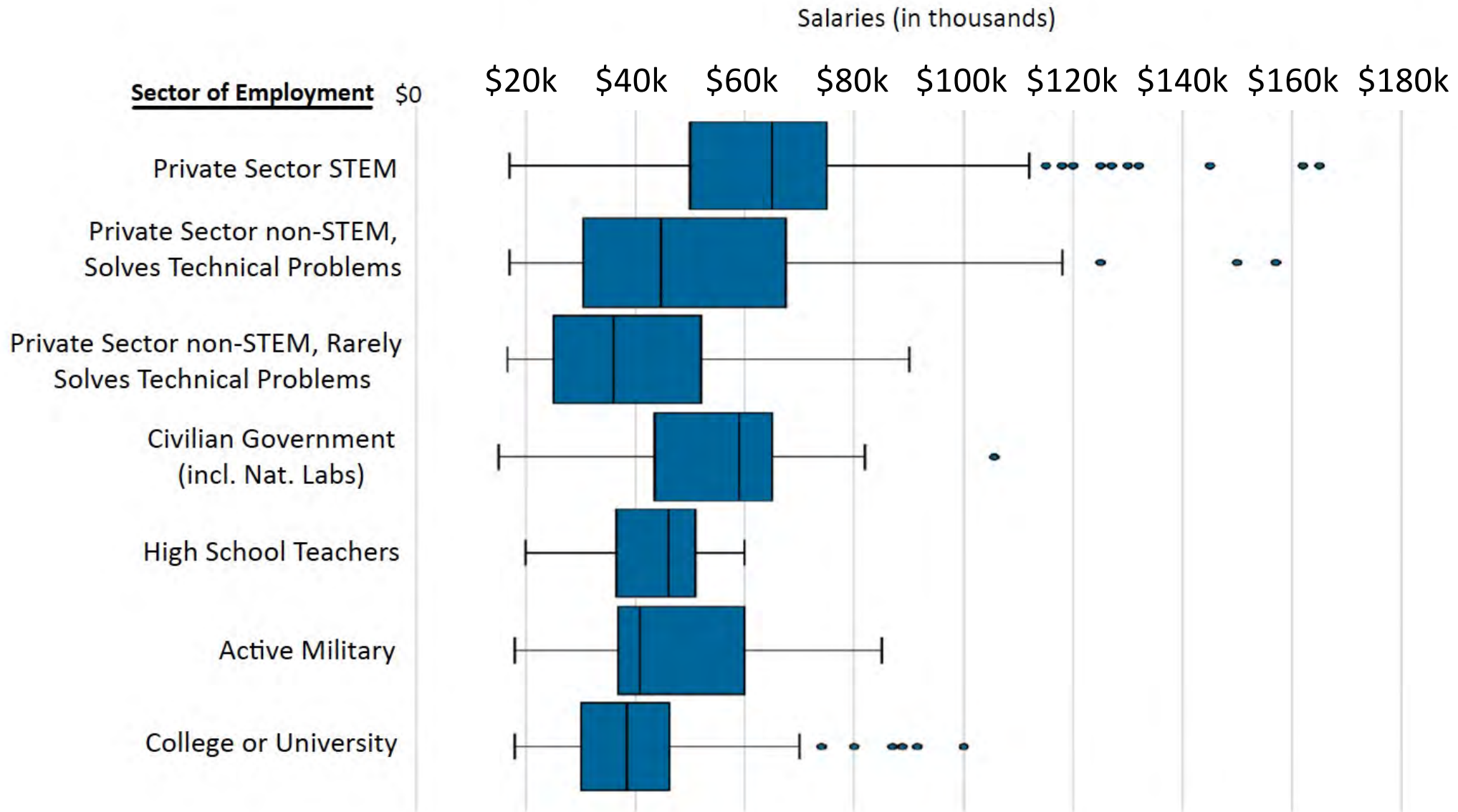
www.aip.org/statistics



Percentages represent the physics bachelors who choose "daily", "weekly", or "monthly" on a four point scale that also included "never or rarely".

RESEARCH EXPERIENCE GETS YOU ALL OF THESE SKILLS!!

Starting Salaries for Physics B.S. (2019-20)



Who hires physics bachelor's in Washington State?

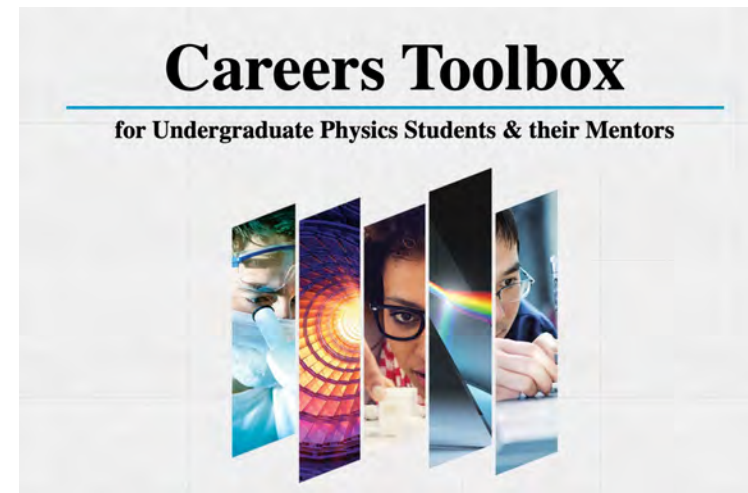
National Data from classes of 2016 through 2020

www.aip.org/statistics

Bluetooth SIG, Inc.	Fatigue Technology Inc.	Mighty AI (not complete)
Access Laser Company	Filter, LLC	MRV Systems, LLC
AeroTEC	Fred Hutchinson Cancer Res Ctr	nLIGHT, Inc.
Aerotek	Fremont Analytical Inc.	Outreach.io
Allen Inst for Brain Science	Garco Construction	Ozone International
Alphabet inc.	Google	Professional Credit Service
ALS Global	IHME	Protingent, Inc.
Amazon	Inst for Environmental Health.	Puget Sound Energy
Amazon Web Services	Inst for Health Metrics and Eval.	Radiant Vision Systems
Applied Motion Systems	Intellectual Ventures	Raisbeck Engineering
Assemble Inc	Jacobs	ScribeAmerica
Boeing	Key Technology, Inc	Seattle Photonics
BTownWeb	Launch Consulting LLC	Silicon Mechanics
Casaba Security LLC	Lease Crutcher Lewis	Simpson Engineers, Inc.
CB Technologies Inc.	LevelTen Energy	Starbucks
CDC/NIOSH	Lumotive	Tecace Software
Commerce Architects	Manufacturing Technology Inc.	Tecplot Inc.
Department of Defense	MAQ Software	Trinity Consultants
Eagle Harbor Technologies	Microsoft	University of Washington
EASi	Microvision	US Navy
		WA Dept of Transportation

Society of Physics Students Career Resources

- <https://www.spsnational.org/career-resources>
- Careers Toolbox
- Webinars –
 - I'm About to Graduate: What on Earth Do I Do Now?
 - The Interview: What you need to do before, during and after to get the job
 - Network Yourself to a Great Career
- Resume advice
- Interview advice
- Networking advice
- SPS Jobs (place to upload your resume, view postings)



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>
- UW Career and Internship Center
 - <http://careers.uw.edu/>
 - Today's Presentation
- Faculty, Alumni, others in area
 - LinkedIn, Neighbors, People on the bus
 - Today's Career Panel

2022 Career Panel

- **Dan Poux**, UW Career and Internship Center
- **Ned Nestorovic [UW '88]**
President and Chief Optical Engineer at Seattle Photonics
- **Arielle Leon [UW '12]**
System Design Engineer at the Allen Institute for Brain Science
- **Chris Moore [UW '20]**
Staff Engineer at Lumotive
- **Alex Stevens [UW '11]**
Physics Teacher at Issaquah High School.

Links from Dan Poux at Career Services

- <https://careers.uw.edu/schedule-an-appointment-with-a-career-coach/>
- <https://www.linkedin.com/school/university-of-washington/people/?facetFieldOfStudy=100892>
- <https://cdn.uconnectlabs.com/wp-content/uploads/sites/25/2020/06/Informational-Interviews-and-Networking-Light-Blue.pdf>
- <https://careers.uw.edu/channels/physical-life-sciences/>
- Also – A physics-specific site from the University of Michigan:
https://careercenter.umich.edu/files/cc/physics_cg_0.pdf