What do "Physicists" Do?

Bachelors

Masters

Doctorates

Gathered from

http://www.aps.org/careers/guidance/statistics.cfm

Physics Students Have Broad Interests

Most Common Double Majors of Physics Bachelors

Mathematics

Engineering

Computer & Information Sciences

Astronomy & Astrophysics

Chemistry

Philosophy & Theology

Music & Fine Arts

Biology

Education & Teaching Certification

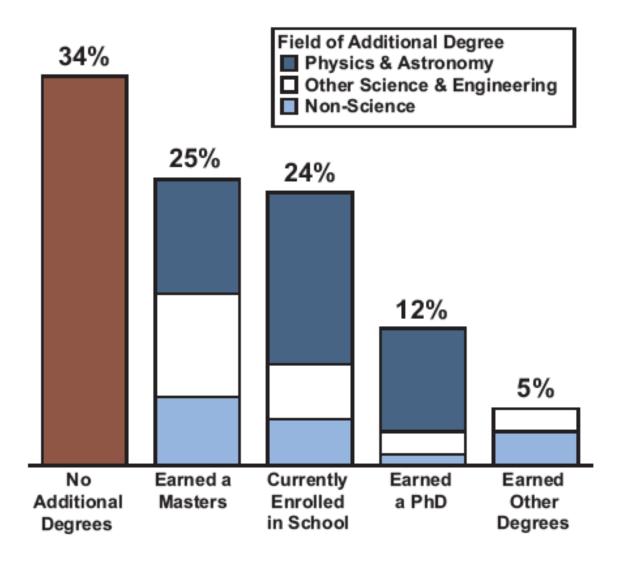
History & Political Science

Geosciences

Economics

One-third of physics bachelors graduate with double majors.

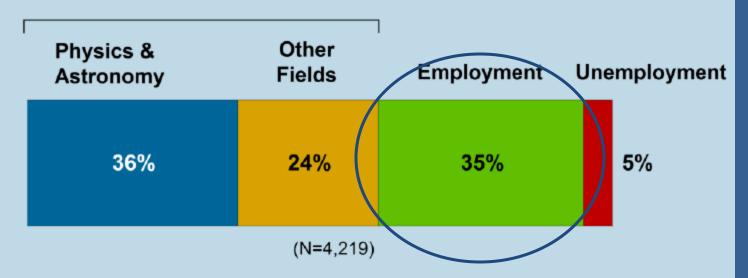
Highest Degree Obtained by Physics Bachelors, Five to Seven Years After Degree



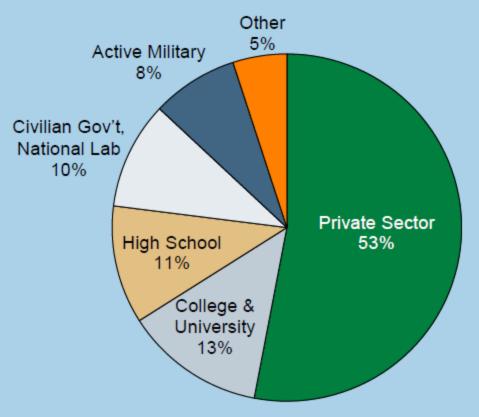
Source: 1998 Bachelors Plus Five Study

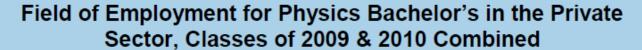
Status One Year After Earning a Physics Bachelor's, Classes of 2009 & 2010 Combined

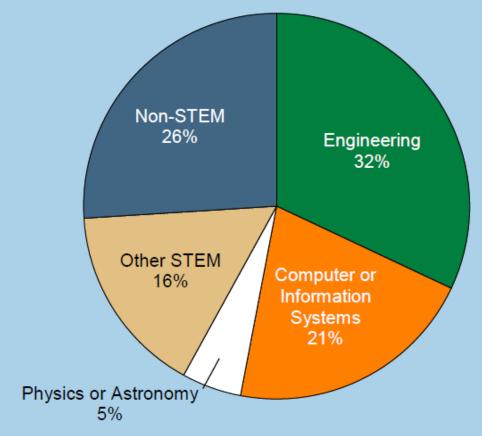
Graduate Study



Initial Employment Sectors of Physics Bachelor's, Classes of 2009 & 2010 Combined







STEM refers to natural Science, Technology, Engineering, and Mathematics.

Predominant Work Activities

Recent Physics Bachelors

Private Sector STEM Design & Development Programming, Simulation & Modeling Quality Control

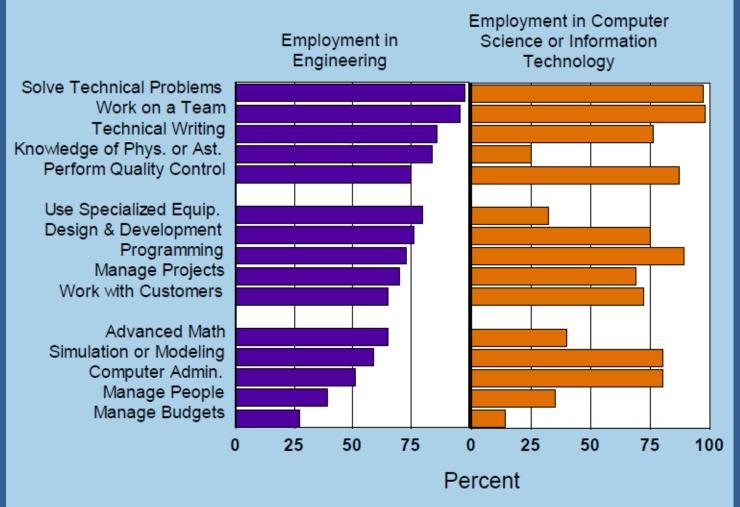
Private Sector Non STEM Management & Administration Financial & Legal Services Sales & Marketing

Civilian Government Applied Research Basic Research Design & Development

Predominant means over 50% of the work activities in each of the sectors. STEM refers to positions in Science, Technology, Engineering and Math.

Source: AIP Follow-up survey of physics bachelor's classes of 2003 & 2004

Knowledge and Skills Regularly Used by Physics Bachelor's Employed in the Private Sector, Classes of 2009 & 2010 Combined



Percentages represent the physics bachelor's who chose "daily", "weekly", or "monthly" on a four-point scale that also included "never or rarely".

What's a Bachelor's Degree Worth?

Typical Salary Offers by Campus Recruiters, AY 2008-09

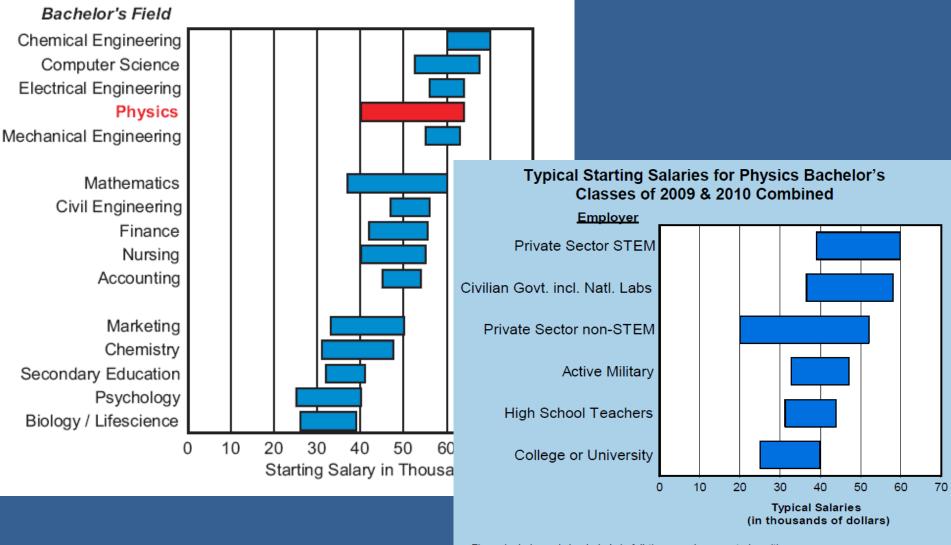
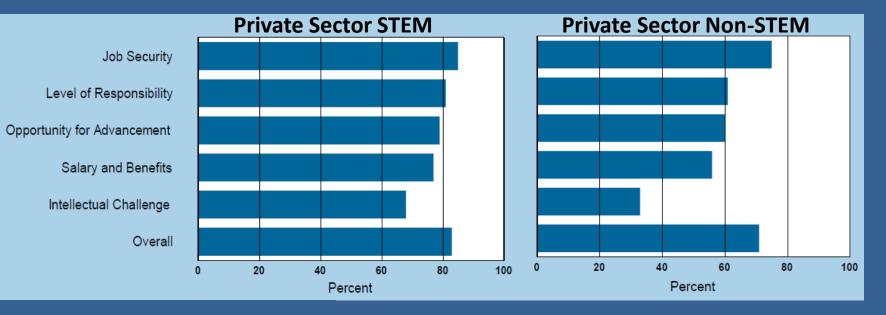
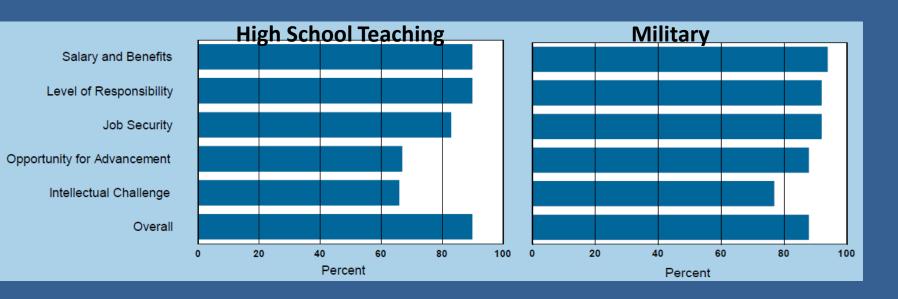


Figure includes only bachelor's in full-time, newly accepted positions.

Typical salaries are the middle 50%, i.e. between the 25th and 75th percentiles. STEM refers to positions in natural Science, Technology, Engineering, and Math.

Job Satisfaction of 2009, 2010 Physics Bachelor's





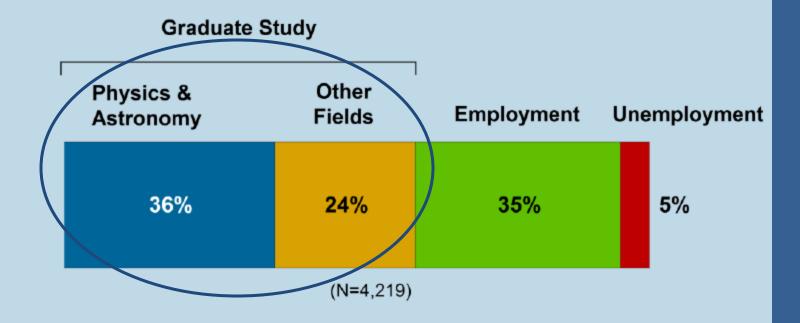
Employers in California that recently hired new physics bachelor recipients	
Active Life Technologies	
Aero Jet	E&M Electric
AerospaceComputing, Inc.	E2 Manage Tech, Inc.
Aerotek	Eberline Services
Agilent Technologies	Electronic Arts
AGR, LLC	Electro-Optical Industries
ALPOGO Air Conditioning	Energy and Environmental Economics, Inc.
Amgen, Inc.	eSolar, Inc.
Apple, Inc.	Fire Cause Analysis
Applied Operations Research, Inc.	Fiserv FSC Insurance
Areias Systems, Inc.	Five Point Capital
Arete Associates	Flowroute, LLC
Arlon-M.E.D.	General Atomics
Arrowhead General Insurance Agency	Gotama Building Engineers
Asbestos TEM Labs	GreenVolts
	Havok
BAE Systems	HR Textron
Boeing	IBM Almaden Research Center
Business Researchers, Inc.	Idealab
California Analytical Instruments	Illumina, Inc.
Calliope	Impulse Devices
Continental DataGraphics	
Deluxe Digital Camera	Information Systems Professionals (Ispro) Intel Corporation

Intel Corporation	NVIDIA
J.D. Lincoln, Inc.	O'Melveny & Myers, LLP
Jet Propulsion Laboratory (JPL)	OptiSolar, Inc.
KEMA	Pacific Alternative Asset Management Co.
Kern County Fire Department	Particle Beam Physics Laboratory
Kiff Analytical, LLC	Perfect Point EDM Corp.
KOMENAR Publishing	QUASAR
Lawrence Berkeley National Laboratory (LBL)	Quicksilver Software, Inc.
LDI Mechanical, Inc.	RadiaBeam Technologies
Leonard Kroko, Inc.	Raytheon
Litel Instruments	RBH Aerospace, Inc.
Lockheed Martin Corporation	Revolution Prep
Master-McNeil	Rhythm and Hues Studios
Maxim Systems, Inc.	San Francisco Superior Court
MedAvant HealthCare Solutions	Santa Cruz Institute for Particle Physics
Melles Griot	Scripps Research Institute
MeridianLink	SCS Energy
Mochila	Sequenom
MRI	SharePoint 360
Multiprobe, Inc.	Shimmick Construction, Inc.
Nanolmaging Services	Stanford Linear Accelerator Center (SLAC)
Nanosolar, Inc.	Soladigm
NASA/Caltech Jet Propulsion Lab	Solyndra
Northrop Grumman	Sonoscan, Inc.
	Space Micro, Inc.

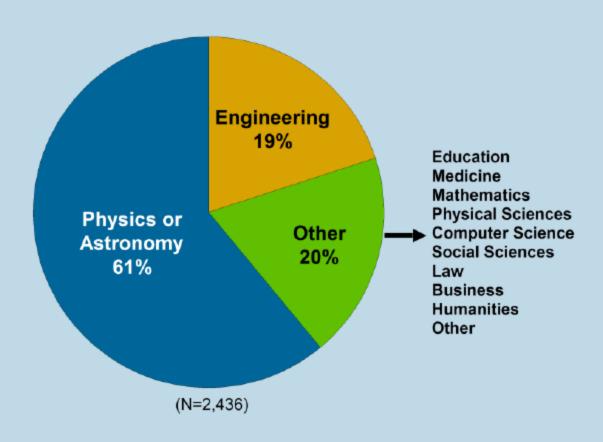
Spectra-Physics Stantec Superconductor Technologies, Inc. Sylvan ThatGameCompany The End Result The Princeton Review **TriAccess Technologies UC Berkeley Space Sciences Laboratory UCI Medical Center** United Health Group, Inc. **Universities Space Research Association** ViaSat, Inc. Walt Disney Imagineering WET Design

Xoma, LLC

Status One Year After Earning a Physics Bachelor's, Classes of 2009 & 2010 Combined



Fields of Study for Physics Bachelor's Continuing Directly Onto Graduate Study, Classes of 2009 & 2010 Combined



Courses Required for a Physics PhD Or masters

Percent of Departments

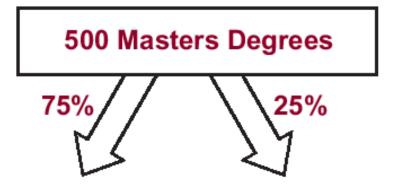
Quantum Mechanics	91%
Electromagnetism	89%
Statistical Mechanics	85%
Classical Mechanics	77%
Mathematical Methods	54%
Laboratory Techniques	24%
Other	24%

Source: AAPT/APS Doctoral Education Survey, 2005. Compiled by AIP Statistical Research Center

[&]quot;Other" courses include: Advanced Topics, Astronomy, Computational Physics, Elementary Particle Physics, Introductory Astrophysics, and Modern Physics.

Physics Masters 1 Year Later

US Citizens Only - Classes of 2005 & 2006



Employment

- 155 Private Sector
- 70 College & University
- 50 High School
- 35 Government
- 40 Active Military
- 25 Other

Graduate School

- 75 Physics & Astronomy
- 10 Engineering
- 40 Other

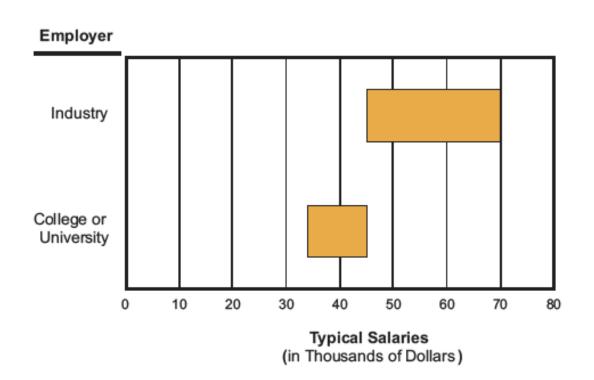
Data reflect masters who are leaving their current department in a given year.

The outcomes for the 300 non-US citizens who received physics master's degrees was the reverse of what is shown for the US students, with 25% entering the work force and 75% continuing their graduate studies at another department.

Source: AIP Statistical Research Center, Initial Employment Survey.

Masters Starting Salaries

Physics Masters Classes of 2002 & 2003



Typical salaries are the middle 50%, i.e., between the 25th and 75th percentiles.

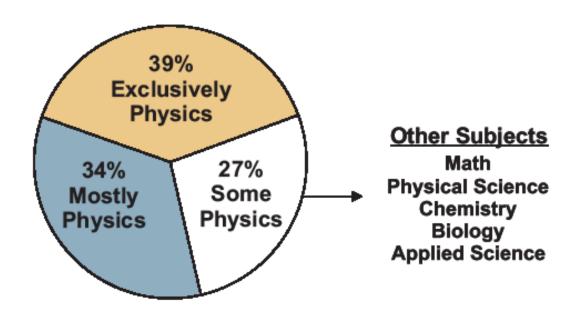
There were too few respondents in the categories of High School, Active Military, and Civilian Government to accurately report salaries.

Source: Initial Employment Survey.

STATISTICAL RESEARCH CENTER WWW.aip.org/statistics

What Do High School Physics Teachers Teach?

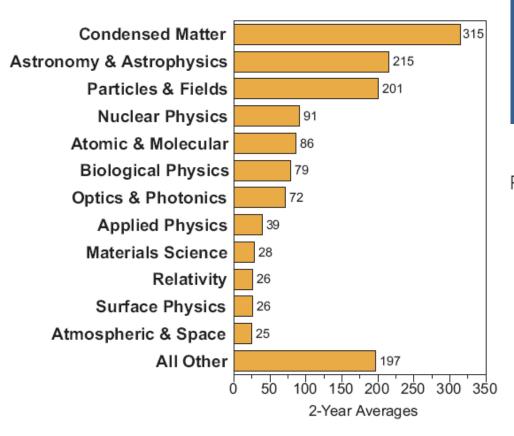
Recently Hired Teachers with Physics Degrees



The average teaching load is 5 classes per term.

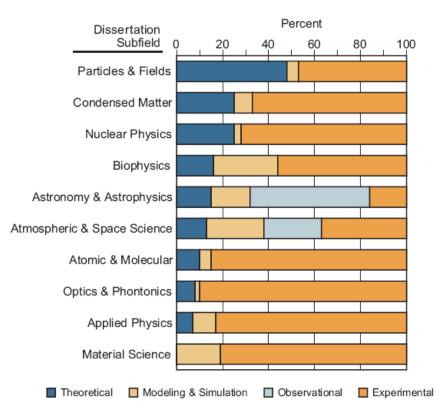
PhDs by Subfield

Physics & Astronomy PhDs of 2005 & 2006

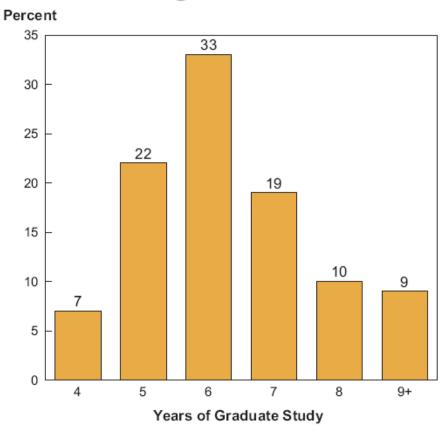


Type of Dissertation Research

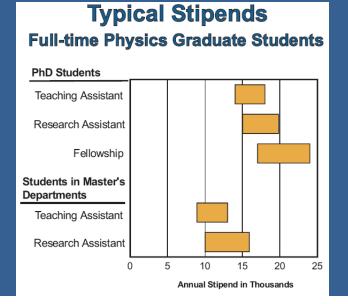
Physics and Astronomy PhD Classes of 2002 & 2003



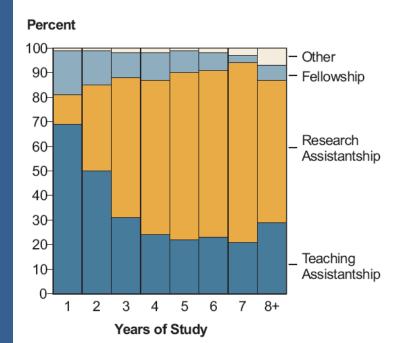
Physics PhD How Long Does it Take?



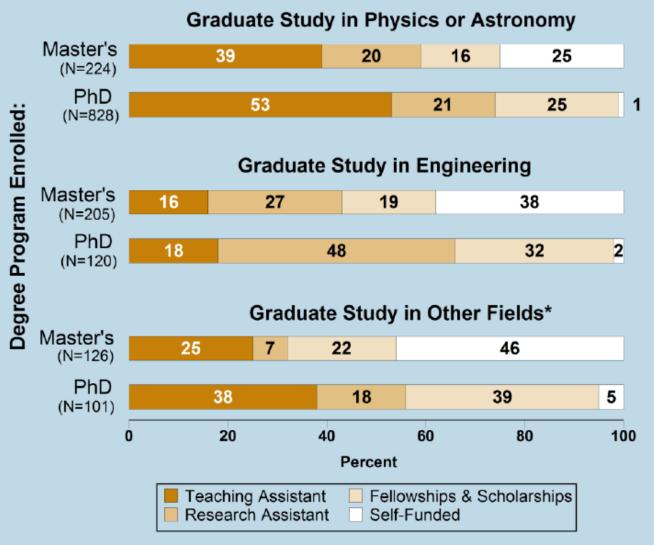
This graph depicts the number of full-time equivalent years of physics graduate study completed by the PhD class of 2004. US Citizens only.



Primary Type of Support for Physics Doctoral Students

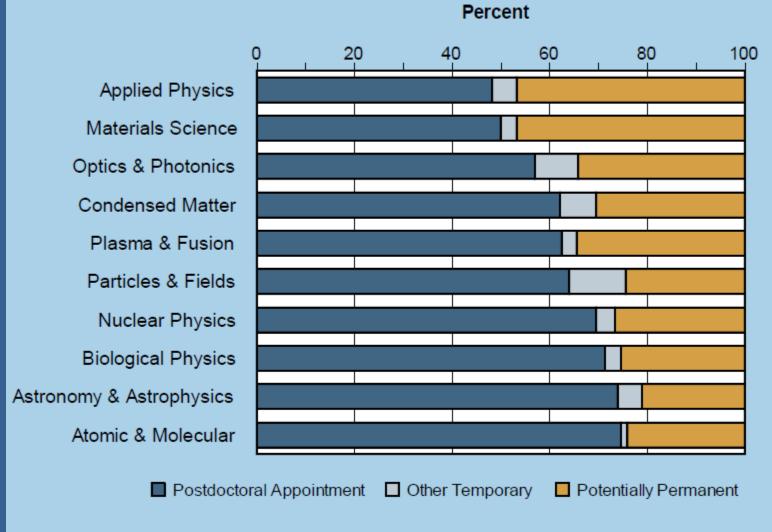


Primary Types of Support for Physics Bachelor's Immediately Pursuing Graduate Study, Classes of 2009 & 2010 Combined



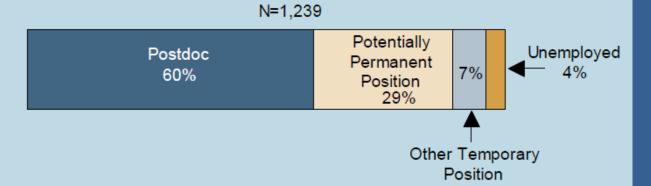
^{*}Does not include professional degree fields such as law and medicine.

Initial Employment of Physics and Astronomy PhDs by Subfield of Dissertation, Classes of 2009 & 2010 Combined.

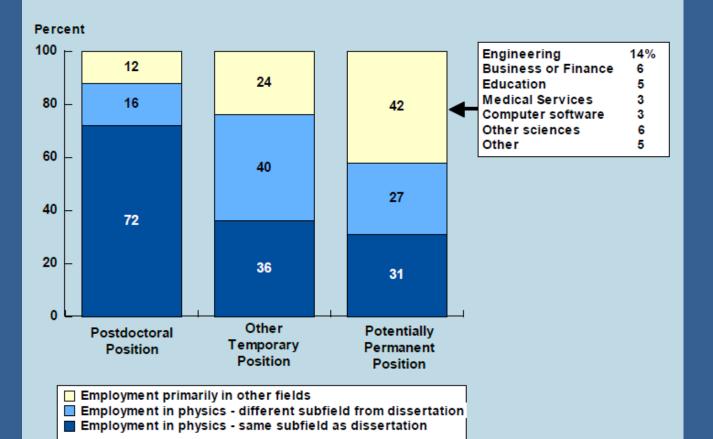


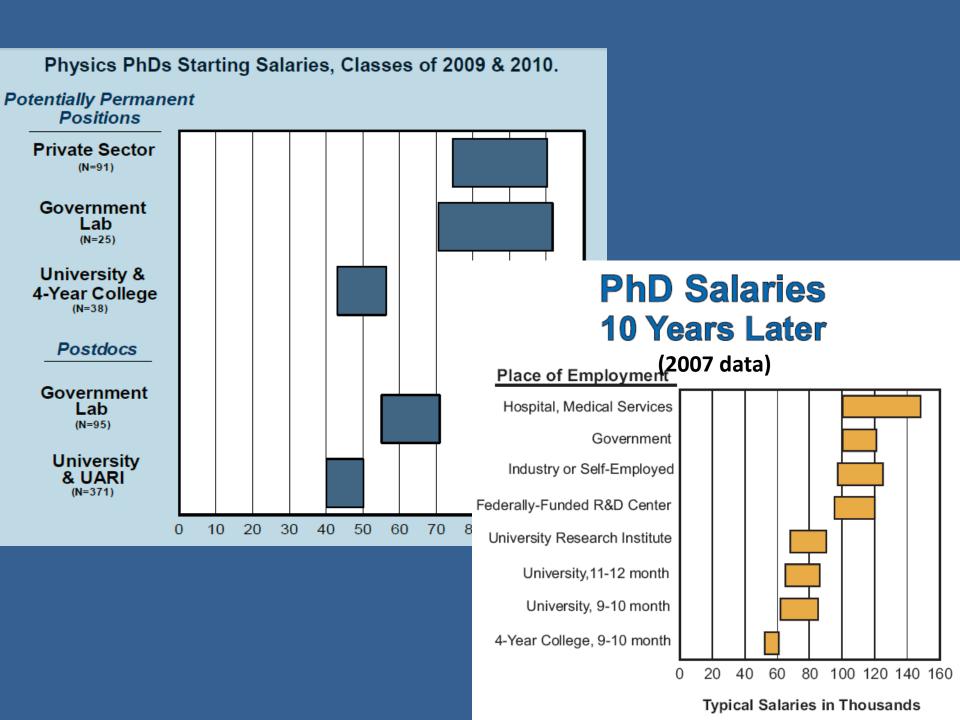
Data only include U.S.-educated physics PhDs who remained in the U.S. after earning their degrees.

Initial Employment of Physics PhDs, Classes of 2009 & 2010.

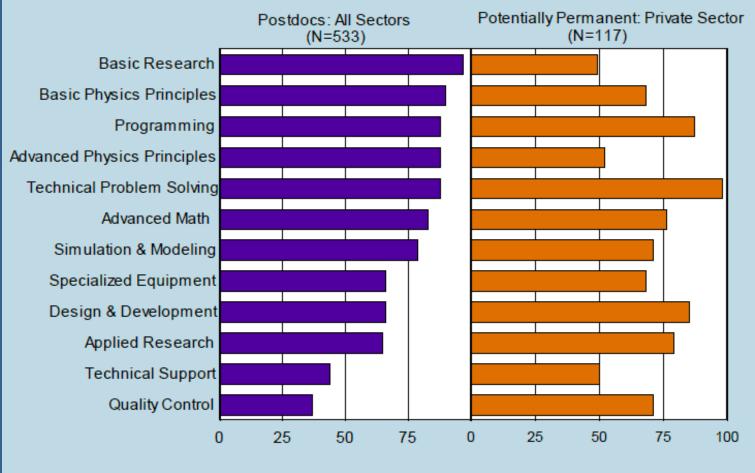


Initial Employment of Physics PhDs, Classes of 2009 & 2010.





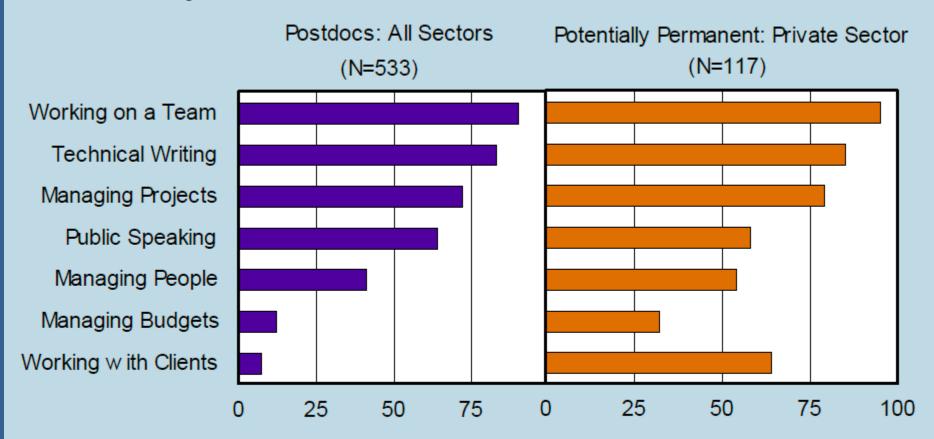
Scientific and Technical Knowledge Regularly Used by New Physics PhDs, Classes of 2009 & 2010 Combined



Percent Who Use Regularly

Percentages represent the proportion of physics PhDs who chose "daily", "weekly" or "monthly" on a four-point scale that also included "never or rarely". Data only include U.S.-educated physics PhDs who remained in the U.S. after earning their degrees.

Interpersonal and Management Skills Regularly Used by New Physics PhDs, Classes of 2009 & 2010 Combined



Percent Who Use Regularly

Percentages represent the proportion of physics PhDs who chose "daily", "weekly" or "monthly" on a four-point scale that also included "never or rarely". Data only include U.S.-educated physics PhDs who remained in the U.S. after earning their degrees.

Look for your self

http://careers.aps.org/search/browse/

Note: "advanced search" tab allows you to limit your search by degree earned.