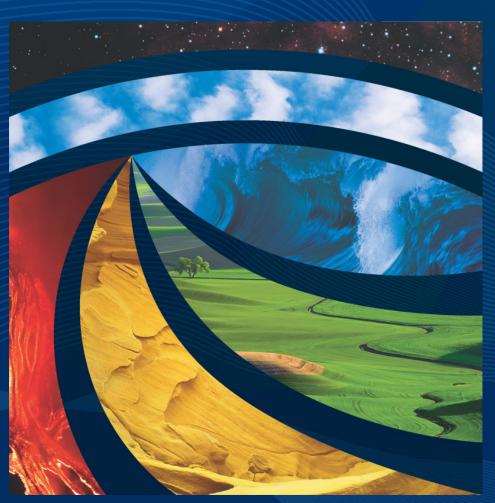
Preparing our Workforce: Thinking Differently about Geoscience Careers



Heather R. Houlton,
Workforce Development
Specialist

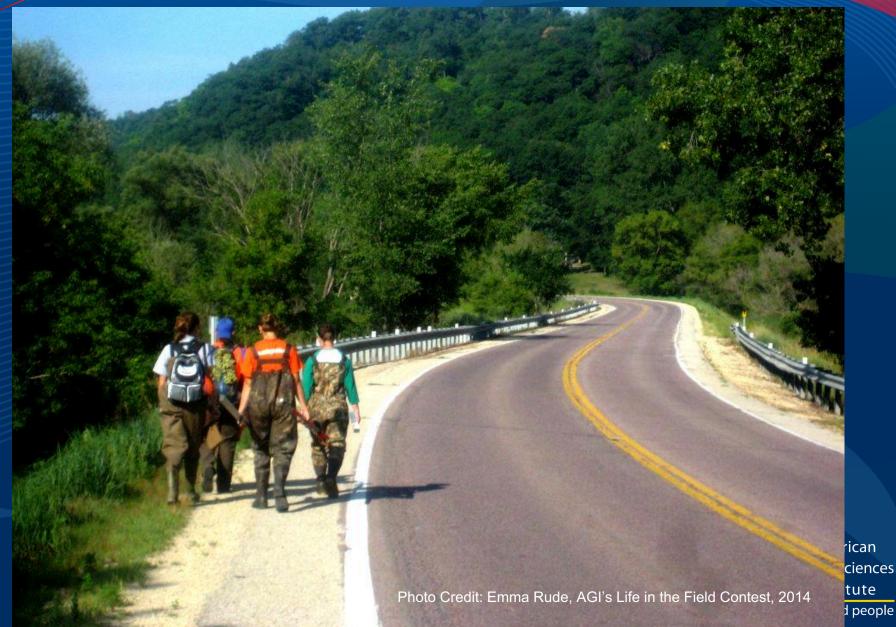
American Geosciences
Institute

Why I'm here

- To explain the geoscience job market.
- To get you to think outside the box!
- To help facilitate and guide your job searches.
- To be a resource for you!



My Career Pathway



rican ciences tute

What Geo Careers do you know?

- What Geo subjects interest you?
 - What skills do you need to be successful?



Participation Slide

Geo Subjects:

Geo Skills:



What Geo Careers do you know?

- What Geo subjects interest you?
 - What skills do you need to be successful?
- What Geo careers interest you?
 - What skills do you need to be successful?



Participation Slide

Geo Careers:

Geo Career Skills:



What Geo Careers do you know?

- What Geo subjects interest you?
 - What skills do you need to be successful?
- What Geo careers interest you?
 - What skills do you need to be successful?
- What are your other interests or hobbies?
 - What skills do you need to be successful?



Participation Slide

Other Subjects/Hobbies:

Other Skills:

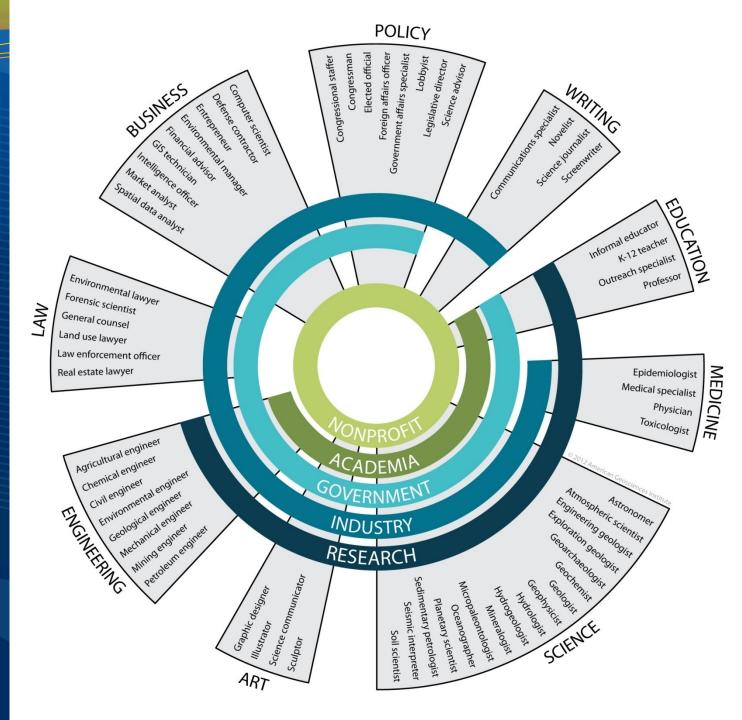


Overarching Theme:

Transferrable skills are vitally important to any and every geoscience career!



Think outside the box!



A subset of data that highlights significant disparity between skill appraisal and student preparation



Ethical

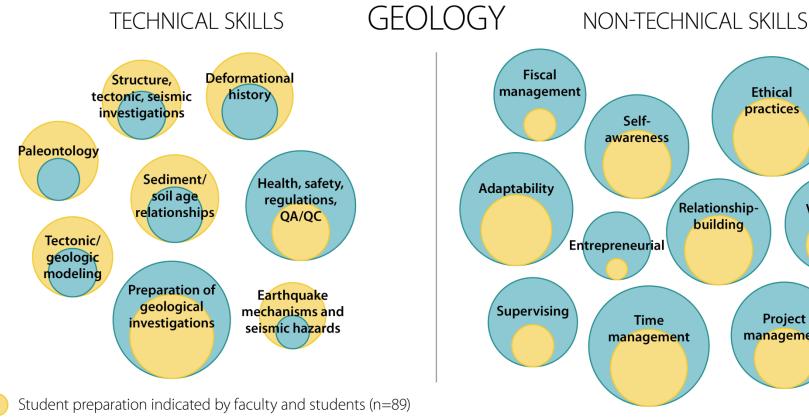
practices

Project

management

building

Visioning



The relative sizes of the circles can only be compared within the same category of either technical skills or non-technical skills. Skills selected for this graphic displayed statistically significant disparity between student preparation and rated importance, as indicated by the Geoscience Career Master's Survey Data Analysis (i.e. Larger blue circles indicate that professionals found these skills to be more important than the overall preparation of students when graduating from their Master's programs). The preparation of students was determined by aggregating data of student and faculty responses.

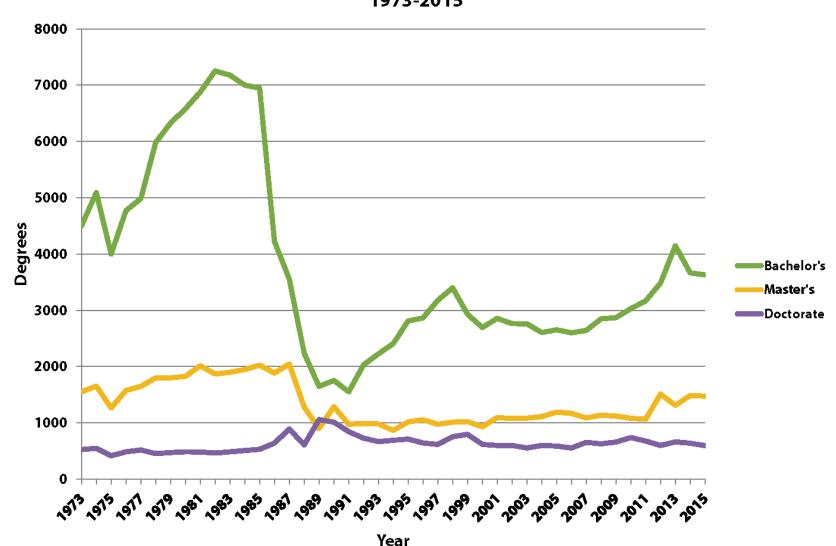
Data Source: Geoscience Career Master's Preparation Survey Report, by Heather R. Houlton, American Geosciences Institute, Technical and non-technical skill names adapted from the ASBOG Task Analysis Survey, and the AAG EDGE Geography and Career Planning Survey, respectively.

Importance of skill in professionals' current position (n=72)

Diameter indicates magnitude of importance/preparation

The Breakdown: Workforce Trends





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The Breakdown: Workforce Trends

324,411 geoscience jobs exist today with postsecondary teachers, 2014 (BLS)

156,000 geoscientists expected to retire by 2024 (~48%) (AGI)

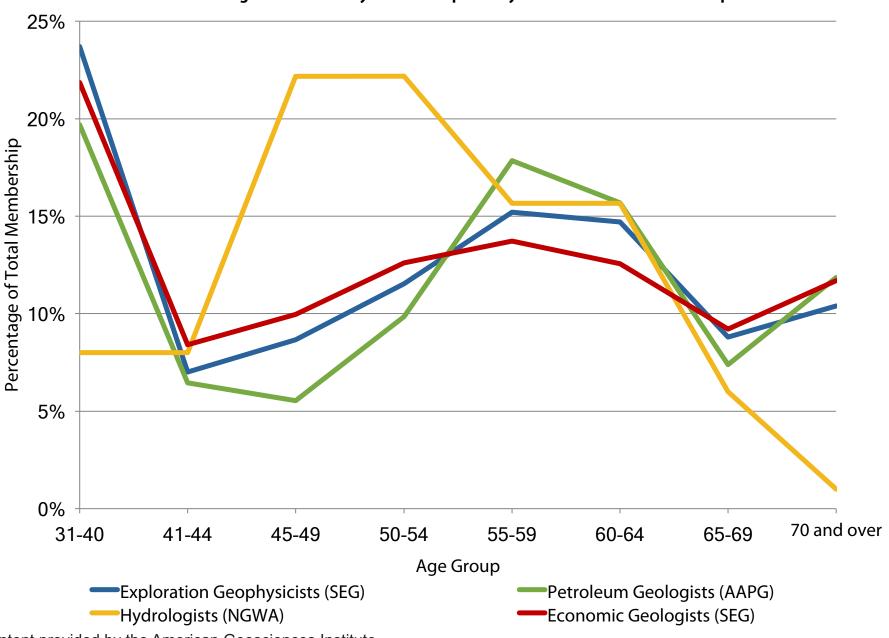
32,400 geoscience job growth by 2024 (~10% change) (BLS)

58,000 total new graduates (with BS, MS and PhD)



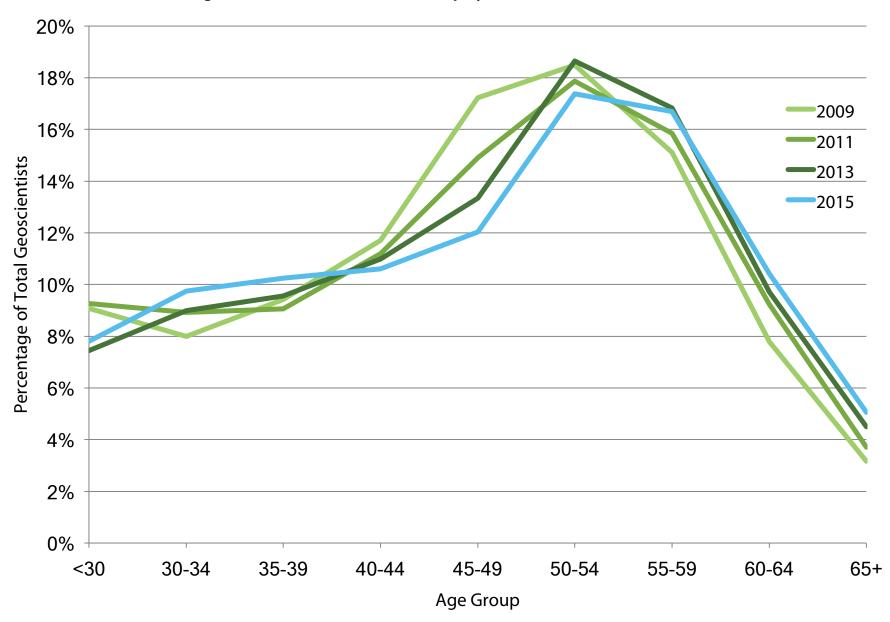


Geoscience Age Distribution by Membership Society without Student Memberships

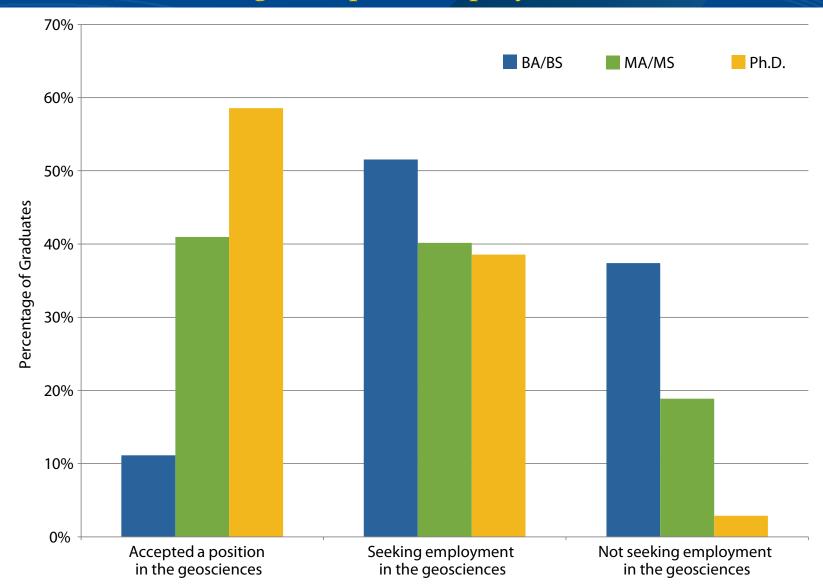


Content provided by the American Geosciences Institute

Age Distribution of Geoscientists Employed in the Federal Government

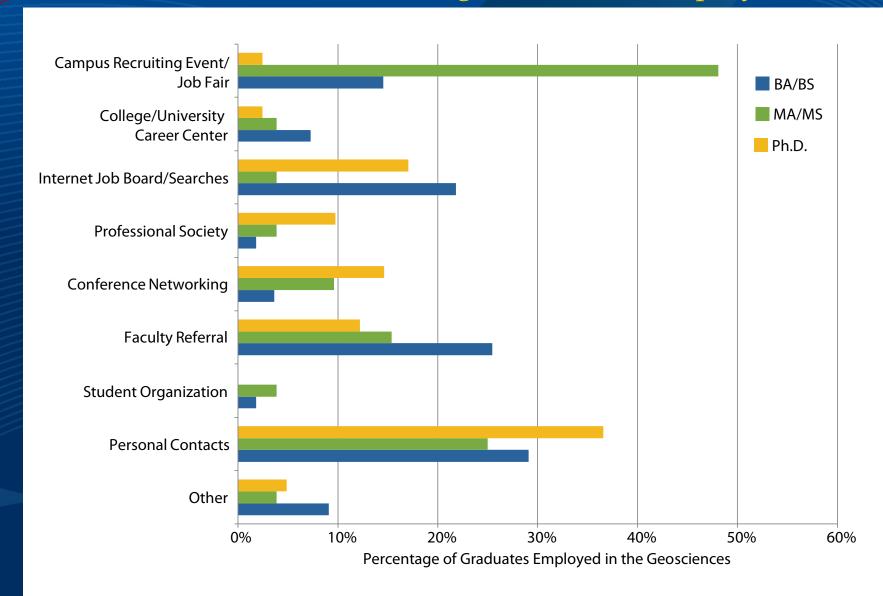


Students Seeking/Accepted Employment in Geoscience



n nces e o<u>ple</u>

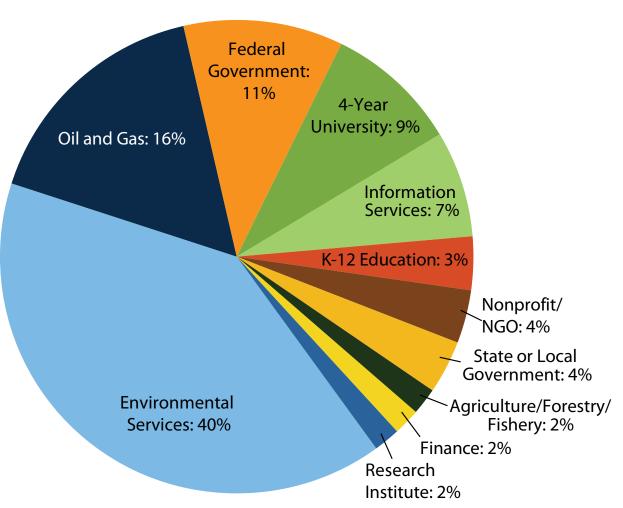
Useful Resources for Finding Geoscience Employment



nces

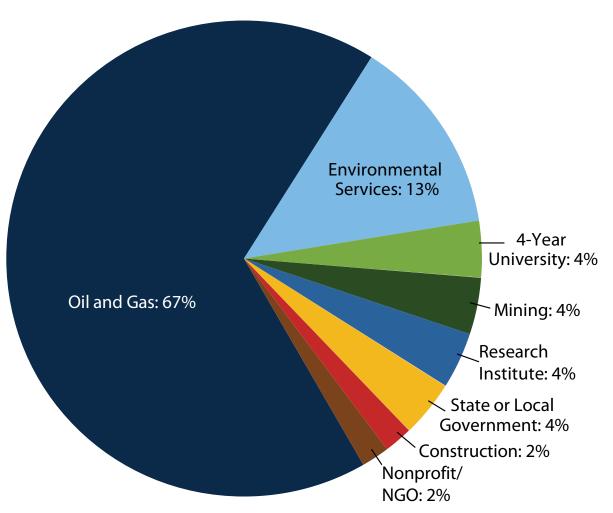
Bachelor's Grads' Accepted Positions (2015)





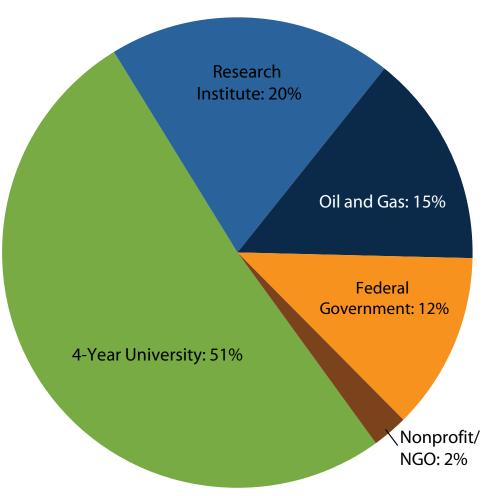
Master's Grads' Accepted Positions (2015)



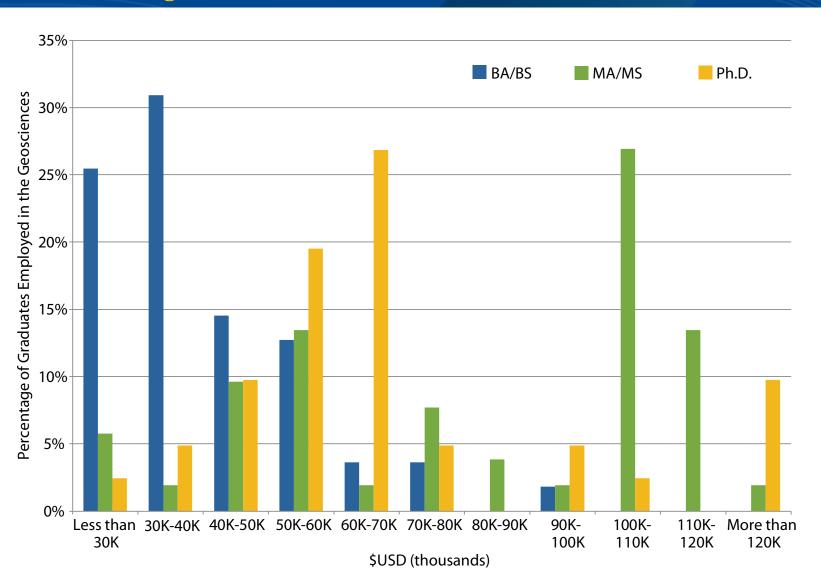


Doctoral Grads' Accepted Positions (2015)

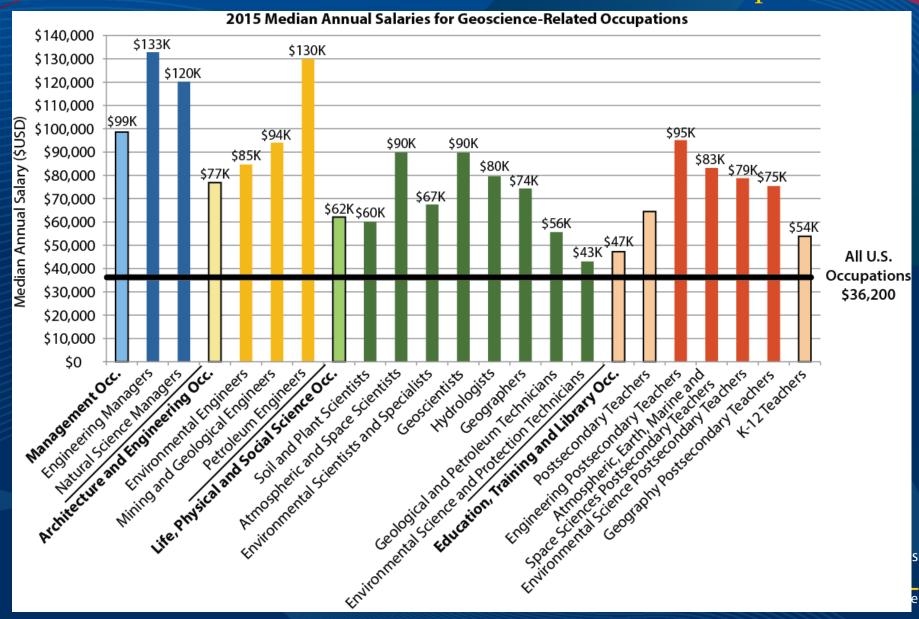




Starting Salaries of Geoscience Graduates (2015)



2015 Median Annual Salaries All Geoscience Occupations



Questions? Thank you!

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