You’ve made it to the end of your first semester and…
You are doing something

GREAT!
THE EMOTIONAL JOURNEY OF
CREATING ANYTHING GREAT

This is the best idea ever!!
This will be fun
This is harder than I thought
This is going to be a lot of work
This sucks I have no idea what I'm doing
Dark swamp of despair
Belief/Persistence
Family+Humour

Ok but it still sucks
Quick, let's call it a day and say we learned something
Hmm...
Hey!
Wow

This is one of the things I am most proud of

Family+Humour

THE EMOTIONAL JOURNEY IS INEVITABLE AND PERHAPS NECESSARY

https://personalexcellence.co/blog/emotional-journey-creating-infographic/
### Salaries in selected science & technology fields 2017

<table>
<thead>
<tr>
<th>Field</th>
<th>Mean annual salary</th>
<th>Growth rate from 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>All US employment</td>
<td>$50,260</td>
<td>2.3%</td>
</tr>
<tr>
<td>Science &amp; engineering</td>
<td>$91,510</td>
<td>2.1%</td>
</tr>
<tr>
<td>Computer science</td>
<td>$89,780</td>
<td>2.3%</td>
</tr>
<tr>
<td>Life sciences</td>
<td>$86,290</td>
<td>2.0%</td>
</tr>
<tr>
<td>Physical sciences</td>
<td>$89,560</td>
<td>1.7%</td>
</tr>
<tr>
<td>Social sciences</td>
<td>$82,410</td>
<td>3.0%</td>
</tr>
<tr>
<td>Engineers</td>
<td>$98,820</td>
<td>1.6%</td>
</tr>
<tr>
<td>Technology</td>
<td>$88,940</td>
<td>2.6%</td>
</tr>
</tbody>
</table>

Source: NSF Science & Engineering Indicators (2020)
FIGURE 3-13

Unemployment rate, by selected groups: 1990–2017

Note(s)
Please see the Science and Engineering Labor Force Technical Appendix for definitions of S&E occupations and S&E technicians and computer programmers.

Source(s)

Science and Engineering Indicators
Go to Poll Everywhere to respond to this poll:
https://PollEv.com/kentholsinge713

What is your long-term career goal?

- Work in a non-profit organization, e.g., The Nature Conservancy, World Wildlife Fund, Conservation International: 0%
- Work in a government agency, e.g., US Fish & Wildlife Service, National Park Service, Environmental Protection Agency, state department of fish and game: 0%
- Work in private industry, e.g., an environmental consulting firm, a private corporation, a law firm, a political consulting firm: 0%
- Work in a college or university as a faculty member: 0%
- Work in a college or university as a member of the academic staff, e.g., academic counseling, Honors program director: 0%
- Work as an educator in K-12 schools: 0%
- Work as an administrator in K-12 schools: 0%
FIGURE 3-7

Occupational distribution of S&E highest degree holders, by field of highest degree: 2017

Note(s)
Detail may not add to total because of rounding. For each broad S&E highest degree field, S&E occupation (in field of highest degree) includes individuals who report being employed in an occupation in the same broad category. For example, for highest degree holders in computer and mathematical sciences, S&E occupation (in field of highest degree) includes those who report the broad field of computer and mathematical sciences as their occupation, and S&E occupation (not in field of highest degree) includes those who report an S&E occupation other than computer and mathematical sciences occupations.

Source(s)

Science and Engineering Indicators
FIGURE 3-8

S&E degree holders working in S&E occupations, by level and field of S&E highest degree: 2017

Note(s)
Individuals may have degrees in more than one S&E degree field.

Source(s)
FIGURE 3-11

SEH doctorate holders employed in academia, by type of position: 1973–2017

Note(s)
Academic employment is limited to U.S. doctorate holders employed at 2- or 4-year colleges or universities, medical schools, and university research institutes. Full-time faculty includes full, associate, and assistant professors. Other full-time positions include positions such as research associates, adjunct appointments, instructors, lecturers, and administrative positions. Part-time positions exclude those held by students or retired people. Percentages may not add to 100% because of rounding.

Source(s)
National Center for Science and Engineering Statistics, National Science Foundation, Survey of Doctorate Recipients (SDR).

Science and Engineering Indicators
Chaos theory of Careers

Closed systems thinking
• Nothing unexpected happens
• Life should be fair
• Linearity of change
• Confidence in order
• Exceptions are errors
• Limited response to change

Open systems thinking
• The unexpected will happen
• Life has no guarantees
• Change is non-linear
• Shifts happen
• Exceptions may be significant
• Creative response to change

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https://personalexcellence.co/blog/emotional-journey-creating-infographic/
Find mentors
• Your major advisor (for sure)
• **BUT** not only your major advisor

Productive struggle
• Learning is high, emotions low
• Judged retrospectively
Useful links related to tenure track job searches in ecology (last update July 2019)

Two years to the tenure track
One evolutionary biology postdoc looks for a faculty job

In total ...

112 applications
17 interviews
11 campus visits
3 offers

Day by day

“So What Are
You Going to
Do with That?”

Finding Careers Outside Academia

THIRD EDITION

SUSAN BASALLA &
MAGGIE DEBELIUS

“A smart, insightful, supportive, straightforward, and engaging guide. One of the most important resources that I have, and I use it daily. This time, Basalla and Debelius dare to shed light on the myth that a career in academic science research is a panacea. I wish I had written it!”
—Victoria A. Blodgett, assistant dean, Graduate and Postdoctoral Affairs, University of Connecticut

THE PROFESSOR IS IN

THE ESSENTIAL GUIDE TO TURNING YOUR PH.D INTO A JOB

KAREN KELSKY, PH.D.

UCONN
THE GRADUATE SCHOOL
Career Advice

Change From the Ground Up
Ph.D. students need to develop more skills around teaching and working with data to assess student outcomes, argues Terri E. Givens.

https://www.insidehighered.com/advice
The Center for Career Development's model for career engagement is designed to provide you with a framework to:

- enhance your knowledge about career options and pathways;
- activate your career preparation;
- help you acquire skills and experiences to be a competitive job candidate.

- Career Prep and Job Search Checklists
- Academic Job Prep and Search

http://career.uconn.edu/graduate-students/
Share of PhD holders who started their current jobs in the last 3 years

<table>
<thead>
<tr>
<th>Field</th>
<th>Cohort A</th>
<th>Cohort B</th>
<th>Cohort C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Humanities</td>
<td>92%</td>
<td>53%</td>
<td>28%</td>
</tr>
<tr>
<td>Engineering, Math, and Computer Sciences</td>
<td>95%</td>
<td>58%</td>
<td>35%</td>
</tr>
<tr>
<td>Physical and Earth Sciences</td>
<td>98%</td>
<td>57%</td>
<td>27%</td>
</tr>
<tr>
<td>Life and Health Sciences</td>
<td>96%</td>
<td>63%</td>
<td>38%</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>94%</td>
<td>51%</td>
<td>30%</td>
</tr>
<tr>
<td>Education</td>
<td>80%</td>
<td>42%</td>
<td>32%</td>
</tr>
</tbody>
</table>

Data Source: Council of Graduate Schools, Understanding PhD Career Pathways for Program Improvement (NSF/DGE #1661272 and Mellon Foundation #31600612), Fall 2018 Alumni Survey.
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