Presentation on career development for PhD students

Outline

- 1. Academic jobs
- 2. Industry jobs

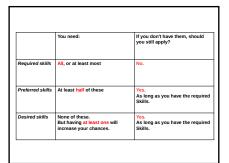
Type of Positions (Academic)

PhD students:

Post-Docs

Post-Docs:

- · Tenure-track assistant professor
- · Research-track faculty
- Instructor
- · assistant professor



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THE JOB SEARCH CALENDAR

- JULY: Start putting your application package together
- AUG: Job ads begin appearing SEPT: Lots of ads appear
- OCT: Farliest deadlines
- NOV: Many deadlines
- DEC: Many deadlines, interview invitations begin
- Interview invitations, interviews begin · JAN:
- FEB: Interviews continue
- MARCH: Interviews continue, 2nd visits APRIL:
- 2nd visits and negotiations 2nd visits and negotiations · MAY:
- JUNE:

Deconstructing Job Ads

- Purpose of deconstructing job ads
 - To develop a targeted resume/cover letter

Steps of deconstructing Job Ads

- 1. Identify qualifications, Skills and abilities/keywords
- 2. Fill in worksheet

How do you meet the criteria?

Develop a targeted resume and cover letter focusing on your qualifications, strengths, and competencies for the job and explain why you are a good fit for the position.

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WHEN AM I READY TO APPLY?

- STUDENTS
- POSTDOCS
 - · One great paper or several good papers
 - · Career development awards (K01, K99/R00)
 - NIH has a new policy about the definition of early-stage investigators (<= 10 years after getting PhD) who receive higher pay-lines for R01 grants
 - · Apply for a second postdoctoral job?

READ/INTEPRET A JOB AD

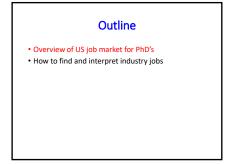
Purpose of deconstructing job ads

To develop a targeted resume/cover letter

- HOW TO READ A JOB AD
- Job Titles/Employers
- · Qualifications (degree, years of work experience, funding, etc.)
- · Skills, abilities, duties
- · Identify keywords in the job ads
- "Highly-motivated"
- "Hignly-motivateu
 "Team player"
 "Must be willing to work flexible hours"
 "Competitive salary and benefits"
 "required", "preferred", "desired"

Preparing for Industry Careers

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Availability of Jobs

Type of Position Expected vs. Actually Obtained (Former Postdocs)

Tenure-track academic position
Nontenure-track research scientist 15%

Covernment 15%
Nonprofit research 15%
Industry
Self-employment 15%
Other 15%
Industry
Self-employment 15%
Other 15%
Industry

Doctor-level positions in Industry

Level of engagement 1

Wey touches

Product

Pro

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Distribution of USA Science Jobs by Market (+/- 5%)

- 15% Academia
- 30% Government
- 20% Non-Governmental Organizations
- 35% Business

Types of Companies

- Large Pharma
- Biotechs

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- · Medical Devices and Diagnostics
- · Non-profits, NGOs



Outline

· Overview of US job market for PhD's

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• How to find and interpret industry jobs

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Changing job preferences for graduate students

Other research careers

PI in academia

Non-research careeres

Current Career Choice
(Srd year or later)

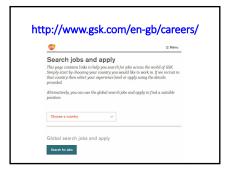
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Typical Job Titles

- Scientist
- Senior Scientist
- Engineer
- Applications Specialist
- Group Leader
- Technical Support Specialist
- O.A/OC
- Project/Program Manager
- Business Research Analyst
- Technical Writer
- Patent Review
- Corporate Communications
- Regulatory Affairs
- Business Development
- Science Enterprise

Transcription Community Control Community Comm

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Job Description: Research Scientist
II: Drug Metabolism

Service
Value
V

Matching your Talent Map to Business Requirements by Employee Size and Revenue

Competency

-100 -1500 Clobal -500M per year -4500M per year -

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Steps of deciphering job Ads

• Job Ads

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Required Skills (business)

Self-assessment

Targeted resume / cover letter

Matching your Talent Map to Business Requirements by Function

Competency		Mid level Manager	Staff Support	Research	Operations	Sales
Technical/Scientific				++++		
Creating the Vision	+++			+++		
Developing People		+++				
		+++			++++	
Achieving Results		++++		+++	++++	++++
Communications	++++	+++	+++		+++	++++
Financial Acumen	++++	+++	+++	+++	++++	+++

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A: To get a job

Specific Aims

Q: What is the purpose of deciphering job ads?
A: Develop a targeted resume/cover letter

Q: What is the purpose of the resume/cover letter?
A: To get an interview

Q: What is the purpose of the Interview?

Mapping Scientists
Behaviors to Business Skills

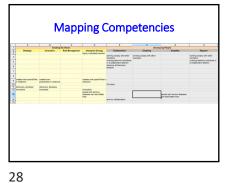
PhD Behavior	Relates to
Developing a Hypothesis	Creating the Vision
Training students	Developing People
Planning and performing experiments	Execution
Quality-checking data	Achieving Results
Presenting and defending your work	Communications
Managing costs for an experiment	Financial Acumen

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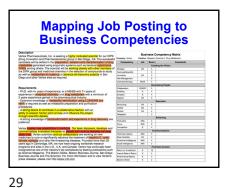
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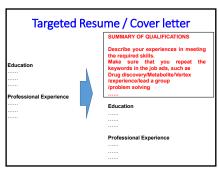
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Specific Aims Q: What is the purpose of deciphering job ads? ✓ Develop a targeted resume/cover letter Q: What is the purpose of the resume/cover letter? A: To get an interview Q: What is the purpose of the Interview? A: To get a job

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