Now, Pick A Winning Career

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### Outline

- Strategic Career Development
  - Traditional approach to job searching
  - Strategic career planning
    - Identifying passions or antipassions
    - Applying Design Thinking principles
- STEM-Related Careers are Virtually Everywhere
  - Types of careers
  - How to look for careers
    - Established tools geared towards early career professionals
    - Do your homework/research
    - LinkedIn
- Question and Answer Session

### Problems with “Typical” Job Search Strategies

- Start late
- Unsure about what you are passionate about
- Limited knowledge of what types of careers are available
- Difficulty identifying what skills you possess and how they align towards specific jobs
- Often there is pressure to “find a job”
- Not strategic

### Alternative Approach to Starting Your Career

- Create a solid “Master Resume” and LinkedIn page
- Think broadly about jobs/careers you might like
  - Tap into your passions
  - Identify skills you enjoy that are common between your current work and positions you seek
- Network
  - Learn more about types of jobs/industries/companies
  - Expand your professional network of resources
- Identify jobs and create position specific resumes
- Interview and get hired
- Keep updating your professional skills and Master Resume, LinkedIn page, network, etc..
STEM-Related Careers are Virtually Everywhere

Established Tools Geared Towards Early Career Professionals

NIH Broadening Experiences in Scientific Training

BUSINESS & COMMERCIALIZATION

Build a company around your biomedical discoveries and creations. Or take your biomedical skills and apply them to business. Your analytical skills can be used for market research and your scientific knowledge can be applied to technical sales or consulting.
Alumni Spotlight

Audrey Garnatz
PhD in the Committee on Developmental Regeneration and Stem Cell Biology, University of Chicago
Business Process Associate, Sensagen

What did you do as a trainee to prepare for your current career?
I did a lot of reading both in and out of my specific field, and I made an effort to make friends and socialize not only within the university, but outside of academia (that’s called networking). My company takes on clients in many different industries and therefore looks to hire smart, hardworking people with a wide range of backgrounds.

What are the typical things your job entails each day?
My job involves many different roles depending on the day, including researching and writing business plans for new companies, helping those companies begin and maintain operations, and social media marketing. My company also does consulting for larger established companies, for which I draw business process diagrams to help streamlining their processes and be more efficient.

What is the most rewarding part of your job?
It’s really rewarding to prepare a deliverable for a client and have them impressed with the work that we’ve done, and I don’t think seeing a client company become sustainable and then profitable will ever get old!

Sample Job Titles

- Application scientist/specialist
- Product development scientist/engineer
- Analyst
- Market researcher
- Marketing manager
- Technical sales representative
- Medical science liaison
- Accounting manager
- Business development specialist/manager/associate/rector
- Consultant
- Chief Scientific Officer (CSO)
- Entrepreneur

Professional Organizations

- Biotechnology Industry Organization (BIO)
  http://www.bio.org
- The Small Biotechnology Business Coalition (SBBBC)
  http://www.smallbiotech.org
- Women Entrepreneurs in Science and Technology (WEST)
  http://www.westor.org

Science Careers MyIDP

An Individual Development Plan (IDP) is a structured planning tool designed to help you:
1. Acknowledge your strengths.
2. Identify your growth areas.
3. Set goals to improve your skills.
4. Implement plans to achieve your goals.

This tool will guide you through the process of creating an IDP:

1. Self-assessment
   - Consider your skills, values, and interests.

2. Career exploration
   - Learn about career options for PhD holders, mentors, and careers.

3. Set goals
   - Make a career plan for how you will improve your skills, build your network, and prepare for your future career.

4. Implement plan
   - Personalize your steps to achieve your goals.

Visit the website for more information:
http://www.stemcareerservices.com

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Activities of Interest

What activities do you enjoy doing most at work?

This assessment will help you identify those tasks you most and least enjoy doing on a daily basis. You are encouraged to use the complete range of scores to capture interest-related activities. Rate how frequently you are interested in doing the following activities, where 1 = less interested and 5 = very interested.

<table>
<thead>
<tr>
<th>Activity</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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</thead>
<tbody>
<tr>
<td>Teaching students in a classroom setting</td>
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Human Services

Human Services includes careers that work with and meet the needs of individuals and organizations in education, community or the workforce. This includes careers in counseling, social work, health occupations, and numerous other careers where you can help people as they work to improve their lives.

Values Assessment Results

Values are most frequently expressed within organizations, in specific jobs, which is why values are not captured into job family alignment. Use your key values as priorities for your job search, to inform how you choose your career or next job, and decide how you dedicate your time at work. Having strategies and concrete questions for each value are outlined below.

Key Values: Valuing Strategies

1. Flexibility
   Understanding how flexible a job is, is often related to several different factors including the nature of the work and how much it requires a physical presence. The management style of your particular team or organization may support workplace flexibility. When the work requires your physical presence (e.g. meetings, supervision, relationship management), the extent of the line, it’s likely going to be less flexible. However, some organizations leverage technology to provide more flexible work environments. The management team of your line is often the determining factor. Asking what the typical work day looks like, preferred form of communication and meeting frequency, and the importance placed on people being in the office, can help you understand how flexible the organization is.
   - What are the hours of operation?
   - How does the organization use technology to get work done?
   - What are your preferred forms of communication when working with your team?

Interest Assessment Results

Job families are aligned with your self-assessed interest in an existing job or in a desired field of work, for a more comprehensive understanding of your interest alignment. View the Full List of Interest Job Family Levels.

- 1 = least interested
- 5 = very interested

- Start exploring job families that offer opportunities to work in areas that have been of interest
- Explore the job family you actually enjoy doing and the frequency of how long you want to work in areas
- What job families are you interested in that require you to work in areas
- Identify others you enjoy doing, or you can integrate more specific job families and organizations within job families

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Develop a “Strategic” Plan

Tools to Identify Careers

- Job boards
- Talk to people
- Read literature that interest you
- News feeds on careers
- How did people get to current jobs you like
- Go to the right and wrong meetings/conferences
- LinkedIn

Learning About Careers Through Research

2018 Top STEM Jobs

#1 – Software Developer
#2 – Statistician
#3 – Actuary
#4 – Mathematician
#5 – Cost Estimator
#6 – Information Security Analyst
#7 – Mechanical Engineer
#8 – Accountant
#9 – Civil Engineer
#10 – Information Technology Manager
#11 – Computer Systems Analyst
#12 – Computer Network Architect
#13 – Epidemiologist/Medical Scientist
2018 Top 100 Metro Areas for STEM Careers

- #1 Seattle, WA
- #2 Washington DC
- #100 Jackson, MS

[Image: Map showing top 100 metro areas for STEM careers]

August 2018 - Cities with Largest Skills Gaps

- #1 New York City, NY
- #2 San Francisco Bay Area, CA
- #3 Los Angeles, CA
- #4 Boston, MA
- #5 Washington, DC
- #6 Chicago, IL
- #7 Philadelphia, PA
- #8 Detroit, MI
- #9 Miami, FL
- #10 Phoenix, AZ

[Image: Map showing cities with largest skills gaps]

LinkedIn Workforce Report – Aug 2018

Table 2: The intensification of local shortages for data science skills, July 2015 to July 2018

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[Image: Table showing intensification of local shortages for data science skills]

FDA test speeds up approval for Apple and other tech companies

Apple, Alphabet and Samsung’s future forays into medical software could get speedier FDA approval thanks to a new program announced Tuesday.

The FDA is launching a pilot program that will give vetted tech companies pre-approval to work on medical software. The government agency oversees drug and medical device approval, in addition to food and health products. It is working with nine companies, including Apple, Samsung, Alphabet’s Verily, FBIR, Roche and Johnson & Johnson.

The program is a slight departure from how the process usually works. It is focused on approving companies themselves instead of each individual product. Getting FDA approval for individual products can be a lengthy and expensive process. This could allow companies more leeway to innovate quickly.

[Image: FDA approval process]

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Department of Defense seeks students for jobs

The Department of Defense (DoD) is looking for a few good men and women to serve in 600 federal jobs. "Serving the People" has a new spin when it comes to the Department of Defense. The DoD is the country's largest employer of federal civilian employees. The job fair is open to all STEM majors and all branches of the military. For more information, visit www.stemcareerservices.com.

Career Exploration

LinkedIn

Springer Nature

J Jobs

SPRINGER NATURE

Associate or Senior Editor - Communications in Physics (Open Access)

Sage Publications Inc

NY, US

Job description:

The mission of the Communications in Physics (CNP) is to provide a forum for the rapid dissemination of high-quality research in all areas of physics. The successful applicant will be responsible for the editorial and production of the journal. The successful applicant will be expected to work closely with the editorial team and the publisher to ensure the production of the journal.

Follow

Save

LinkedIn
Career Transition Gateway Opportunities

Government Programs
PMF, SEM, SMART, SMART-STEP, SMART-STEM, SMART-EXCEL

Private Fellowships
AAAS Science & Technology Policy Fellowships

Corporations/Private Sector
Google, Dell, Under Armour

Closing Thoughts

- Career development is an ongoing process
- Start thinking about and preparing for your next career now
  - Passions
  - Skills (technical/transferable)
- Build your network
- Don’t feel limited in your career options
  - Explore with tools listed, do research and network for info
- Set goals and create a plan to achieve them
  - Identify desired career fields
  - Increase your skills, as needed
  - Take risks
  - Seek opportunities
- Use a career coach/mentor/advisor/resources as needed
Follow us for daily updates on obtaining and succeeding in careers outside of academia...

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Email Josh Henkin, PhD at... Josh@STEMCareerServices.com