CAREER CLUB: SESSION 1 CAREERS FOR PHDS

January 18, 2024

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Office Of Graduate Studies



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Introductions!

- Name
- Expertise
- Career aspiration
- We'll start:

Stages of Career Exploration

Understand yourself

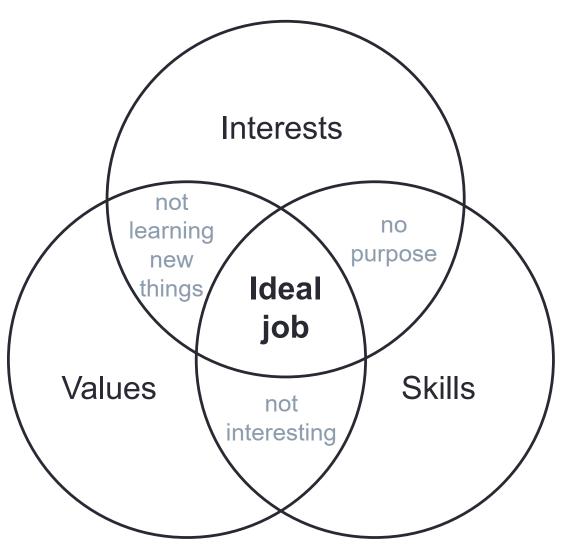
introspection

Self-assessments

Skills/Values/Interests myIDP



Interests, Skills, Values



Identifying Interests: Worksheet 1

Examine the interests/skills listed in each of the six typology sections below and rank each section from 1 – 6 in order of preference, according to your <u>enjoyment</u> of the majority of the tasks.

(1 = HIGHEST; 6 = LOWEST).

PRACTICAL Technical Systematic Application	SCORE		INVESTIGATIVE Research Discovery Curiosity	SCORE	
Conducting experiments, colle Using mathematical/statistical Equipment and methodologie: Instrumentation knowledge & Applying specialist technical sk Practical and physical experim Collecting samples, taking mea Taking responsibility for lab re cell, animal and plant care/ma	l tools s understan kills ental tasks asurement sources, in	nding s s ncl.	Making new discoveries Interpreting results and data Conceptualising and designing research projects to test a hypo Thinking up new theories/procutearning about new research Researching/reviewing literatur Researching/Reviewing research Writing and reviewing research	othesis esses re h literatur	
ENTERPRISING Inventive Resourceful Leadership	SCORE		SUPPORTIVE Advising Instructing Cooperating	SCORE	
Preparing and conceptualising Promoting and 'selling' your id Setting up new projects Thinking 'big picture' and havi Coordinating/leading projects Technology transfer/IP opport Establishing new collaborators Freelance consultancy work Marketing and promoting rese	leas ng new ide unities	eas	Helping and supporting others Supervising/mentoring Teaching/tutoring Demonstrating in undergradua Liaising with people (eg colleag collaborators, editors, students Networking at conferences Being involved in/organising ev bring people together	ues, peers	
CREATIVE Artistic Imagination Design	SCORE		ADMINISTRATIVE Executive Management Organisation	SCORE	
Imaginative data presentation Technical/research design inno Artistic realisation (visual, perf Popularising science to the pul Creating imaginative designs Theatrical and dramatic preser Writing press stories, media er Writing general interest science Blogging and other social med	ovation formance of blic ntation ngagement te articles		Organising experimental sched Keeping records of data and/or Working to deadlines Managing finances Organising workload and priori Serving on committees Writing reports Editing manuscripts Marking and assessing student	budgets	5

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 Typologies ranked in order of preference, e.g.
 RESULTS
 1: | 2: | 3: | 4: | 5: | 6: | 6: | 6: |

 RESULTS
 1: | 2: | 3: | 4: | 5: | 6: |
 6: | 6: | 6: |

Refer to your <u>top three</u> typology rankings above and examine the corresponding typology sections below which contain a list of suggested jobs that match the associated interest/skills.

PRACTICAL	INVESTIGATIVE
Technical Manager/technician	Researcher (Industry)
Clinical laboratory scientist	Researcher (Government institute)
Laboratory manager	Researcher (university)
Specialist scientist: toxicologist, forensics,	Academic/professor/group leader
pharmacologist, manufacturing, product/process	Research analyst
Applied scientific research	Market researcher
Data/information manager	Researcher (media/policy)
Specialist scientific services, e.g. statistician,	Think Tank adviser
Bioinformatician, IT services	Journal development manager
Health & Safety officer/Quality assurance	Journal Editor/Commissioning editor
Practical physical careers (eg warden,	Forensic Investigator
agriculturalist, farmer, field worker)	Professional academic writer (papers/grants)
ENTERPRISING	SUPPORTIVE
University Academic/professor	Scientific services adviser
Research Group leader	Events manager
Company owner (e.g. Spin-out company)	Sales representative (relationship building)
Company director/Business manager	Product demonstrator/adviser
Patent Lawyer/Attorney	Researcher Support Manager
Marketing/brand manager	General medical practitioner/vet
Sales manager	Health care specialist e.g. nurse, physiotherapis
Recruitment consultant	Personal/careers adviser/coach
Technology transfer manager	Front-line services
Specialist consultant	Educational development manager
Commissioning editor	School teacher
Private equity manager	Social worker
CREATIVE	ADMINISTRATIVE
Engagement Officer (e.g. schools, public, media)	Professional academic writer (papers/grants)
Communications/community manager	Regulatory affairs/pharmacovigilence
Social media communications specialist	Patent examiner
Science journalist	Grants administrator
Press and publicity officer	Science Policy officer
External relations manager	Conference organiser
Science writer	Editorial assistant
Medical communications	Copy editor/Proof reader
Exhibitions designer	Administrator (e.g. university, government)
Artistic careers (eg photographer, artist)	Course coordinator
Brand and designer (e.g. web, product)	Manager (e.g. project, office, finance)
Copywriter	Personal assistant/ Company secretary
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Potential jobs of interest

1.	
2.	
3.	



Identifying Skills

Consider both technical/scientific and transferable skills

- Analysis and Problem Solving
- Research and Information Analysis
- Technical/hands-on
- Written and Oral Communication
- Interpersonal
- Organization and Management
- Supervision and Leadership Skills
- Self-Management, Work Habits
- Inventive/Innovative

Think about skills you've acquired outside of graduate training/lab as well



Identifying Skills: Worksheet 2



WORKSHEET 2: SKILLS

	Skills Potentially Used During Your Research Experience					
Skill Category	Specific skill	High or moderate proficiency	Enjoy using	Required in job		
	Organize and classify information					
	Clearly define a problem and identify possible causes					
Analytical and Problem Solving	Locate and assimilate new information rapidly and apply to a given problem					
	Design an experiment/research surveys that defines a problem, tests possible resolutions, and implements a solution					
	Develop methods to effectively sort and evaluate data					
	Visualize data, develop models to represent data					
	Consolidate/synthesize large amounts of information into a coherent argument					
	Form and defend independent conclusions based on the evidence					
	Analyze an idea and come up with counter-arguments					
	Compare results and come up with recommendations and next steps					
	Use specialized equipment or techniques					
Technical	Use databases					
	Troubleshoot specialized instruments					

Identifying Values: Worksheet 3



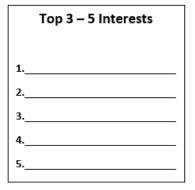
WORKSHEET 3: CAREER VALUES

Value Category	How important are the following in your career?	High	Medium	Low	Notes
	Personal advancement (opportunities for promotion)				
Career growth	Supervision (making decisions, exercise control)				
	Status and prestige (reputation derived from work)				
	Autonomy (work independently)				
	Variety (frequently change work responsibilities or setting)				
	Regular and predictable routine (unchanged daily work scheduled)]
Work style	Competitive space/environment				
WORK Style	High stress and pressure (most days)				
	Fast pace (busy with frequent deadlines)				
	Risk taking (high risk/high reward)				
	Creativity (artistic or intellectual expression)				
	Help others (contribute to betterment of world)				
	Ability to see project to conclusion (not interrupted by extraneous				
	priorities)				
Impact/goal/mission	Sufficient solutions to a problem (may not be the optimal or ideal				
	solution)				
	Intellectual challenge (work at cutting edge of knowledge)				
	Influence people (work to change attitudes or opinion of others)				

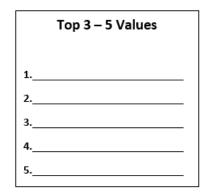
Putting it together: Worksheet 4

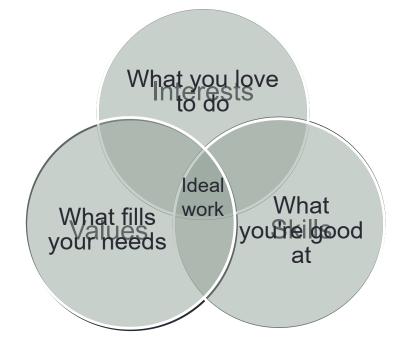


Putting it together!



Top 3 - 5 Skills	
1	
2	
3	
4	
5	





Stages of Career Exploration



Putting it together: Worksheet 4



Putting it together!

Top 3 – 5 Interests	
1	-
2	-
4.	-
5	_

	Top 3 - 5 Skills	
1		
2		
3		
4 5.		
5		

Top 3 – 5 Values	
1	
2	
3	
4	
5	

Investigate Career Options – e.g. Career Fit - myIDP



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Values Assessment

Project Goals

Implement Plan

Mentoring Team

Completion Certificate

Print & Export

Career Path

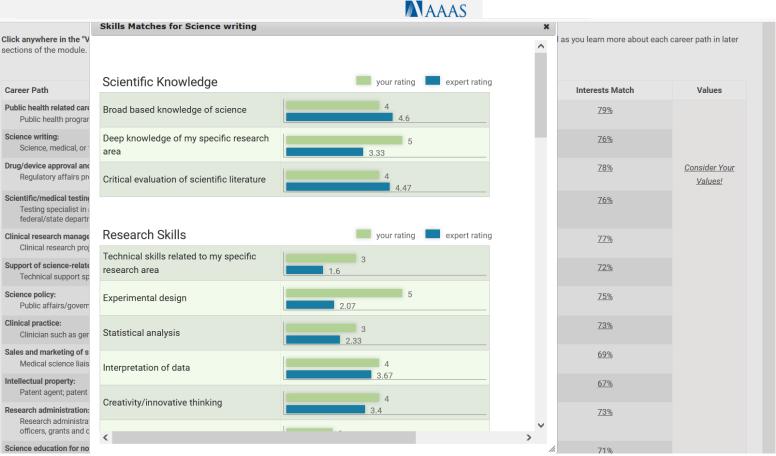
You have put a lot of time and effort into pursuing your PhD degree. Now it's time concept is commonly used in industry to help employees define and pursue their for postdoctoral fellows in the sciences. AAAS/Science joined forces with FASE web-based career-planning tool tailored to meet the needs of PhD students and

myIDP provides:

- · Exercises to help you examine your skills, interests, and values
- . A list of 20 scientific career paths with a prediction of which ones best fit yo
- . A tool for setting strategic goals for the coming year, with optional reminder
- Articles and resources to guide you through the process

There is no charge to use this site and we encourage you to return as often as yo

Click below to get started.





BREAK!

Think about: "I thrive when..."



Stages of Career Exploration



S.M.A.R.T Goal-setting



Short-term goals should:

- Specific: be identifiable a specific action or event that will take place.
- Measurable: have benefits that are quantifiable.
- Achievable: be attainable given available resources.
- Realistic: require you to stretch some, but have a likelihood of success.
- Timely: state the time period in which it will be accomplished.

S.M.A.R.T. professional development goals

To decide if I have misconceptions about consulting and if it's for me

- Identify resources to help me learn more about consulting roles-start with myIDP
- Spend 30 minutes in 10-minute increments in the next week to research
- Practice the case interviews with a club on campus (e.g. 4RS)

Evaluate if I should work at a large or smaller entrepreneurial company

- In the next week, create a short list of 2-3 large companies and 2 smaller ones in my research field
- Using my existing contacts or LinkedIn, search for profiles of interesting roles at these companies. Find 2 I don't know.
- In the next three months, I'll interview 3 people to see what they like about their work



S.M.A.R.T Goal-setting

Short-term goals should:

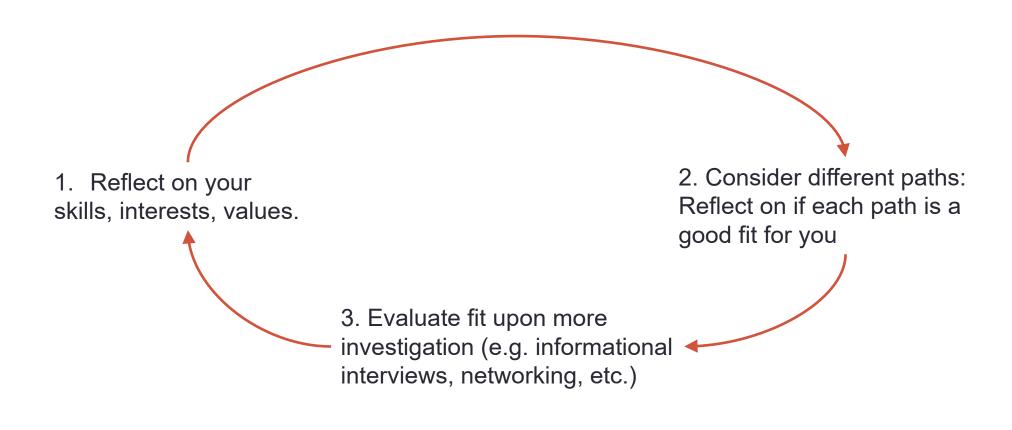
- Specific: be identifiable a specific action or event that will take place.
- Measurable: have benefits that are quantifiable.
- Achievable: be attainable given available resources.
- Realistic: require you to stretch some, but have a likelihood of success.
- Timely: state the time period in which it will be accomplished.

Long-term goals/plans can be less well-defined:

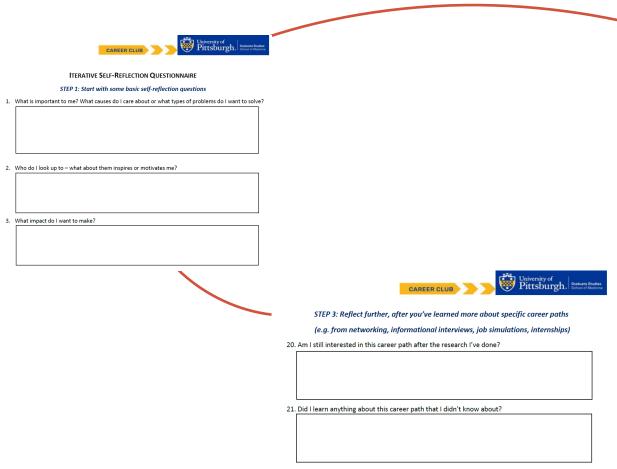
- Focus more on broader life/work values
- Be flexible and open-minded to account for future changes/uncertainty
- Use your short-term goals as logical steps to reach your long-term goals



Iterative process - Self-reflection



Iterative process - Self-reflection





STEP 2: If you have explored several paths, reflect on if the path would be a good fit for you

14.	What about the work do I think will be enjoyable? What about the work won't be enjoyable? Do know, or can I find out more about the balance in different roles in this space?
15.	Will the work use skills I enjoy using? Would I be able to develop new skills that I want to have?
16.	Will I learn new content, and would this be interesting to me?

22. 5 things I liked

Example Resources and Job Boards

Academic:

- Inside Higher Ed
- Higher Education Recruitment Consortium
- Science Careers

Industry:

- BioSpace
- Company websites
- LinkedIn join <u>Careers for Pitt Biomedical PhDs</u>

Government:

USAJobs

Nonprofit:

<u>Idealist</u>

Also:

Professional Societies/Associations

Resources:

- Best places to work:
 - Rankings
 - Salary levels
 - Known for advances in field
- HRC Corporate Equality Index
- Work Values Inventory Don Supers
- Work Economic Forum: Future of Jobs 2023: Skills in demand
- Gallup StrengthsFinder

CAREER CLUB



Follow up!

Consider setting half an hour a week to do some follow up. You can:

- Update your myIDP
- Identify top career possibilities
- Reflect on why these are interesting to you
- Investigate top career possibilities
- Utilize additional resources (e.g. self-reflection questionnaires)
- Identify gaps in your knowledge or experience
- Identify questions about career options to ask at informational interviews
- Refine S.M.A.R.T goals and shape long-term goals
- Begin crafting ways to communicate your goals

Career Club Session 2: Feb 15

Conversations with mentors

- This session provides students and mentors the space and structure to have conversations about student career goals.
- Look for more details in your mailbox soon!

Connect with us!

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Questions?

