

STUDENT NAME

ADVISOR NAME

DATE

Passing your preliminary exam and required coursework has officially made you a candidate for the Ph.D. Your IDP at this stage (Years 3+) should be focused on designing not only a plan for completing the experiments you have proposed, but also for formulating new questions based on the results you obtain. Professional development in terms of how to package your results for publication and present your work at local, regional, and national meetings should be a high priority.

It is not uncommon for the goals/aims of a thesis project to change as you accumulate data; science is all about generating new information and revising hypotheses based on that information. Continued regular communication with your advisor, the members of your thesis committee, and other graduate students will allow you to develop the mental flexibility that is essential to thinking creatively about your work. This IDP is a tool that will help you set milestones for yourself to complete your research and achieve your training goals in a timely manner so you can achieve your long-term professional objectives. A key component to this exercise is establishing honest and open lines of communication with your thesis advisor. Meeting with your advisor about this document provides an opportunity to discuss topics that are important to you. It follows then that you are not obligated to answer every question posed by the IDP as some may not be relevant or of high value to you at present.

The College of Science IDP portal provides a list of the student's and advisor's responsibilities when it comes to designing a training plan. Make sure that you and your advisor review those responsibilities as they will be important to the success of your student-advisor relationship. If you haven't done so already, we encourage you to create a free American Association for the Advancement of Science myIDP account, <https://myidp.sciencecareers.org/>, to further assist you in thinking about your skills, interests and goals, finding tools to set goal (with optional goal reminders), discovering career paths that may be best suited for you based on your skills and interests, and more.

IDP Steps Reminder



- 1** Schedule an annual report meeting with your advisor to discuss your IDP and other annual report documents.
- 2** Reflect on the previous year's IDP, perform a self-assessment of your progress and goals and complete the following Development Plan (IDP). Submit your IDP with your Annual Report through the [Annual Report](#) for your advisor's review prior
- 3** Obtain your advisor's feedback on your IDP, other annual report documents and your advisor's evaluation.
- 4** Lead the discussion of your IDP self-assessment during your annual report meeting.

PROFESSIONAL AND PERSONAL DEVELOPMENT

1. What are your long-term goals (i.e., what do you want to be doing on a daily basis 5-10 years after you graduate)? For example: PI in a research-intensive institution; teaching intensive career; scientific testing; entrepreneurship.

2. What skills, or knowledge content have you identified for targeted development to best position you to succeed in your long-term goals? Use this worksheet to assess and identify skills that you would like to target in the coming year, marking your current ability level from weak (1) to strong (3) relative to where you think a student should be at the end of their Ph.D. studies.

RESEARCH SKILLS & SCIENTIFIC THINKING	1 weak	2 Avg.	3 strong	Target skill	WRITING	1 weak	2 Avg.	3 strong	Target skill
Broad-based knowledge of science					For a scientific publication				
Critical reading of scientific literature					For a research/grant proposal				
Experimental design					For a lay audience				
Interpretation of data					Grammar/structure				
Statistical analysis					Editing your own writing				
Creativity and innovative thinking									
Navigating the peer review process									
LEADERSHIP/ PERSONNEL MANAGEMENT	1 weak	2 Avg.	3 strong	Target skill	Oral Communications	1 weak	2 Avg.	3 strong	Target skill
Providing instruction and guidance					To a specialized audience				
Providing constructive feedback					To a lay audience				
Dealing with conflict					In a classroom				
Leading and motivating others					One-on-one				
Serving as a role model					English fluency				
Setting expectations					Approaching difficult conversations				
Creating vision and goals									

3. What professional development and research activities did you take part in during the last 12 months? (e.g. conferences, workshops, publications, internships, networking, etc.)? Which experience or experiences have been most valuable to you, your research and/or your professional goals?

4. Which of the professional development activities listed below would you like to work on over the next 12 months to better position you for success in achieving long-term career goals?

Improve	Area to work on
	Join or form a peer group to help me follow through on my career advancement goals
	Get involved in a local/regional committee or group
	Get involved in a professional organization
	Update/create your professional profile online
	Identify a few career options that are a match to your skillset and learn what is necessary to obtain these positions
	Attend workshops, conferences, or events related to my career interests
	Get experience (internship , part-time position, volunteering, etc.)
	Learn more about various career options
	Research what positions appear to be in demand or look like they'll be needed in the future. Add skills that would make you marketable in these positions if they are of interest
	Prepare additional documents, such as cover letters , teaching/research statements, etc.
	Prepare for interviews
	Learn how to negotiate

As adapted from the American Association for the Advancement of Science's myIDP's Career Advancement Goals, <https://myidp.sciencecareers.org/CareerAdvancementGoals/Improvements>

5. If you are interested in pursuing an internship, what skills and experiences do you hope to gain that may be relevant to your long-term career goals? Are you looking for opportunities in a particular sector (e.g., federal, corporate, research)? What would be your ideal timeline be for completing an internship?

6. Have you developed a job search strategy? What is your tentative job search timeline?

Assessing Your Scientific Interests

The following assessment is meant to help you identify scientific tasks that you enjoy and that you'd like to continue performing as part of your future career. By figuring out which things you do (or don't) enjoy doing, you might have an easier time determining the type of field you'd like to go into or will find most fulfilling.

If you had the **ideal job**, rate how frequently would you be engaged in the following activities:

1 = I would like to never do this in my career | 5 = I would like to do this often in my career

	Designing experiments
	Performing experiments
	Analyzing experimental results
	Planning new scientific projects or developing new research directions
	Writing grant proposals

	Writing scientific manuscripts
	Writing project reports or other business-related correspondence
	Writing position papers or policy papers
	Creating presentations
	Representing data in figures/illustrations

	Giving presentations about science
	Reading papers in your field
	Thinking about science
	Learning about other fields
	Keeping up with current events in science

	Discussing science with others
	Attending conferences or scientific meetings
	Learning how to use new equipment or techniques
	Building new devices or developing/refining techniques
	Using quantitative methods in understanding science (e.g., statistics, mathematical modeling)

	Using qualitative methods in understanding science (e.g., focus groups, in-depth interviews, field observations)
	Teaching in a classroom setting
	Writing about science to non-scientists
	Speaking about science to non-scientists
	Mentoring or teaching one-on-one

	Developing collaborations
	Working in a team
	Networking with others
	Leading or supervising others
	Organizing things, creating systems in the workplace

From the American Association for the Advancement of Science's myIDP's Interest Assessment, <https://myidp.sciencecareers.org/Interests/Assessment>