

# Career Pathways: Learning Beyond Grad School

Students who are about to graduate face a dizzying array of choices. Do they continue on an academic path beyond a PhD, or do they or consider several non-academic career options within industry, government, agencies, etc.? Even if they've secured a PhD in Science, less than 10% of STEM PhDs pursue academia.

AAAS has created this program with the career needs of STEM students in mind. AAAS will support college and university career offices with this program to ensure alignment with them as they do the critical work of guiding graduate STEM students. Our new *Career Pathways: Learning Beyond Grad School* program prepares graduate students for the real-life challenges – and opportunities – that await beyond the classroom and helps them explore and pursue their career dreams. The program comprises eight courses, two elective courses and a series of exclusive supporting tools: Job aids, a career pathway map, sample resumes and cover letters, role play scenarios and more.

This program will help students learn how to:

- Identify career options and learn how to prepare for them
- Create a strategy for the job they want
- Write a resume
- Network
- Engage with public audiences
- Communicate science in a way that is easily understood by non-scientists
- Work in diverse teams
- Get involved in science funding by understanding the Federal budget process
- Prepare a proposal that ranks well with a review panel

**The Program includes all of the following components.**

Eight Core Courses:

- What Your Grad Advisor Didn't Tell You
- Communicating Science: Fundamentals for Public Engagement
- Understanding the Federal R&D Budget
- Resume Writing for Graduate Students & Postdocs
- How to Network and Build Strong Relationships in Your Science or Engineering Career
- Preparing for a Successful Job Interview
- Using LinkedIn to Build Relationships as a Technical Professional
- How to Work in Diverse Teams Outside of Academia

Two Elective Courses (not required for certificate of completion):

- Engaging in Science Policy
- How to Communicate with Congress

Program-Exclusive Learning Tools (coming soon!)

- Four interactive role play scenarios:
  - Negotiating a salary
  - Handling conflict in the lab
  - Handling conflict outside of the lab
  - Working with your PI
- Sample resumes and cover letters
- Access to job postings

Quizzes: Individual course quizzes

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## Program Overview

Duration: 10-14 hours

Includes:

- Eight core courses
- Two elective courses
- Program-exclusive learning tools

Course quizzes

Certificate of completion

# Fundamentals of Bioscience Entrepreneurship

This course is designed for biomedical scientists and engineers at all stages of their careers who are interested in learning more about the process of getting an idea, invention or discovery to patients by creating user-defined value through the deployment of innovation. Dr. Arlen Meyers reviews fundamental principles, definitions and concepts in bio-science entrepreneurship, provides an overview of the 12-step life science innovation roadmap and discusses next steps in how to develop the knowledge, skills and attitudes needed to advance your idea. Dr. Meyers also addresses the concept of the five-legged stool and the elements to the business model canvas.

This course will help you:

1. Bring your inventions and discoveries to patients
2. Understand the principles of bio-science entrepreneurship
3. Develop the knowledge, skills and attitudes needed to advance your ideas

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## Course Overview

Duration: 1 hour

Topics:

- Understanding what is meant by Bio-science Entrepreneurship
- Defining the different types of innovation
- Explaining the Life Science Innovation Roadmap
- Being able to create a value proposition
- Understanding the Business Model Canvas
- Learn about the Five-Legged stool: Biomedical IP, Regulatory Affairs, Reimbursement, Product-market mix and the right business model

Quizzes: 1 quiz

Certificate of completion

This course is also available in the [Career Pathways Program](#)

# How to Make the Most of a Networking Event

This course picks up where our first networking course *How to Network and Build Strong Relationships* left off and focuses on the strategies to employ for networking at live events. It begins with knowing how to select the right events for you to attend. *How to Make the Most of a Networking Event* includes topics such as: being prepared and knowing what to bring to every networking event; how to “work” the room effectively with conversational strategies; and how to follow up after the event. The course also includes sections on preparing before you go, getting there, making the connection and action tips to remember.

This course will help you:

1. Develop effective strategies for live networking events
2. Learn how to prioritize your networking opportunities
3. Discover tips and best practices for the events you attend

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## Course Overview

Duration: 1 hour

Topics:

- Develop effective strategies for networking events
- Prioritize networking opportunities
- Discover networking tips and best practices

Quizzes: 1 quiz

Certificate of completion