

## Graduate & Postdoctoral Professional Development Program

**The BioInspired Institute** supports research into complex biological systems, developing and designing programmable smart materials to address global challenges in health, medicine, and materials innovation. It is an Institute for Material and Living Systems, focusing on four key areas:

- Drug Discovery
- Smart Materials
- Mechanics of Development and Disease
- Form and Function

BioInspired includes faculty from Biology, Biomedical & Chemical Engineering, Civil & Environmental Engineering, Mechanical & Aerospace Engineering, Physics, and Chemistry.

We aspire to train well-rounded, polished, career-ready scientists and engineers who will stand out in the job market.

- This program is a comprehensive, co-curricular professional certificate program to codify and recognize these activities outside the lab.
- Courses are taught by BioInspired, the Libraries, The Graduate School's Office of Career and Professional Development, and the WiSE Institute.

**Program Details.** Trainees choosing to participate fulfill required trainings and checkpoints and complete optional skill development badges, all of which count toward certificate completion. Some required elements include:

- Contract signed with advisor/mentor
- Annual individual development plan
- Research ethics and literature searching

**Skill Development Badges** are workshop series focus on developing specific skillsets. Completion of an event series counts toward a skill development badge. The current list of skill development badges include:

- Research Skills & Scholarly Publishing
- Career Preparedness
- Project Management
- Graphic Design
- Research Communication

**Portable Credentials for Career Development**, like the Mozilla/Badgr electronic credentialing system, allow you to share your badges on social media. Use TK20 to put together a portable portfolio system.

Badges are shareable on:

- Mendeley
- LinkedIn

Activity	Required Elements	Required	Optional	When it occurs
		Workshop		
<b>Certificate Program Checkpoints</b>	<i>Attend/Submit All Elements</i>	Signed Contract Annual IDP w/ advisor CITI Online Training Responsible Conduct of Research Training WiSE Science Writing Workshop Advanced Literature Searching		beginning of program annually available online twice annually (fall & spring) annually (January) annually (fall)
<b>Research Skills &amp; Scholarly Publishing Badge (Required)</b>	<i>Open Access, Citation Management + 3 other workshops</i>	Open Access & Scholarly Publishing Citation Management		every other year annually
		Data Tools & Data Management Dissertation Bootcamp Open Science Framework Research Reputation & Research Profiles		bi-annually (every 3rd semester) annually every other year bi-annually (every 3rd semester)
<b>Career Preparedness Badge (Required)</b>	<i>Attend 5 workshops + update IDP</i>	Professional Networking STEM Resume Writing IDP Development LinkedIn For STEM Professionals Grant Funding Academic Job Market Series Social Media for Professionals		annually annually annually annually annually annually (late May/early June) annually
<b>Graphic Design Badge</b>	<i>Attend 4 workshops + 1 artifact</i>	Introduction to Graphic Design, 1 Introduction to Graphic Design, 2 Introduction to Graphic Design, 3 Figure Design Poster Design Hands-on assignment w/ graphic design		every other year every other year every other year every other year every other year at any time
<b>Project Management Badge</b>	<i>Attend 4 workshops</i>	Managers in Technical Projects		every other year
		Leading Collaborative Teams		every other year
		Project Execution		every other year
		Stakeholder Management		every other year
<b>Research Comms Badge</b>	<i>Attend 4 workshops + 2 artifacts</i>	Project Management Panel Discussion		every other year
		Workshops as designated by Graduate School		varies