

What Will You Need to Implement Your Broader Impact Plan?

Knowledge
Skills
Resources
Partners



DELTA
Integrating Research, Teaching, and Learning in Science, Technology, Engineering, and Math
www.delta.uaf.edu

How will I know my teaching is **making a difference?**

How can I help my grad students and postdocs **succeed** in academe?

How can I secure grants by enhancing the **broader impact** of my proposals?

An Answer: The Delta Program in Research, Teaching, and Learning



The Delta Program in Research, Teaching and Learning

When experimenting with my teaching methods, I've been struck by the symbiosis between how much about my research and how much about my teaching, in both cases, the research and I become one, good by your side, and a demonstration of the very life that in the classroom have been asked to research, and my hope is that things that don't work?

John Wright, Assistant Professor of Chemistry (Chem. Chemistry Department)

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What is Delta about?

*Preparing UW
graduate students and post-docs
for
successful careers
that integrate
forefront research
and superb teaching and learning*



Delta Program Offerings



Leveraging Existing Capacity through the Delta Program

- Propose to participate in the Delta Program to learn knowledge and skills in teaching, outreach and mentoring
- Delta courses, programs, and internships will provide you with opportunities to implement your ideas and evaluate if you have done so effectively.
- You will be working within a multidisciplinary learning community as you engage in your broader impact activities.



Leveraging Existing Capacity

- Note that your proposal leverages off a major **NSF investments** in UW (i.e. Delta Program, REUs, CIRTL)
- Note that your proposal leverages off existing initiatives at your chosen institution (if known) and stress you are not starting from scratch (Pre-College Programs, IBE)
- Note that UW is part of a national network (CIRTL)



The CIRTL Network

Boston University
Cornell University
Howard University
Iowa State University
Johns Hopkins University
Michigan State University
Northwestern University
Purdue University
Texas A&M University
The University of Georgia
The University of Texas at Arlington
University of Alabama at Birmingham
University of California, San Diego

University of Colorado at Boulder
University of Houston
University of Maryland, College Park
University of Massachusetts Amherst
University of Michigan
University of Missouri-Columbia
University of Pittsburgh
University of Rochester
University of South Florida
University of Wisconsin–Madison
Vanderbilt University & Fisk University
Washington University in St. Louis



CIRTL Network

*Committed to advancing the teaching of
STEM disciplines in higher education*

Center for the Integration of Research, Teaching and Learning

<http://www.cirtl.net/>



RESOURCES for: Undergraduates (the BioCommons) University Educators Outreach About Us

- HOME
- SEARCH:
- Staff Listing
- Programs and Courses
- Reports & Publications
- Core Values
- History
- Get Involved
- Facilities/Conference Rooms
- Fellows & Partners
- Institute for Biology Education
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608-265-2600
FAX 608-890-0576
biology@biology.wisc.edu

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About Us



Expanding to Become WISCIENCE

What used to be the Institute for Biology Education is now in the process of becoming WISCIENCE (start out saying Wisconsin and end up saying Science). The long title is the Wisconsin Institute for Science Education and Community Engagement. A few things will change, but rest assured that the programs you care about will not go away and our usual collaborative approach will guide the expansion.

Read the article about it in *Inside UW-Madison* [here](#).

Our mission has broadened in several key ways:



WISCIENCE

Outreach Programs

- Adult Role Models in Science (<https://wiscience.wisc.edu/ARMS-program>)
 - Service learning course—*Engage Children in Science*
 - Service is to organize a weekly afterschool science club OR
 - Service is to provide a classroom teacher with weekly support
 - Middle School Science Symposium
 - About 300 MS students develop and present at Discovery their research project in the spring
 - About 80 mentors are desperately needed right now!
- K-12 Teacher Professional Development
 - Advanced Placement Summer Institutes
 - Week long course in either Biology or Chemistry
 - Camp Badger for Teachers
 - Week long course in Engineering for K-12 teachers

