



## Delta Internship Opportunity: University of Wisconsin-Whitewater – “Greening” General Chemistry

For more information, email us at [internship@delta.wisc.edu](mailto:internship@delta.wisc.edu).

**Contact:** Maggie Phillips  
**Email:** [mfphillips@gmail.com](mailto:mfphillips@gmail.com)  
**Available When?** Development late fall 2009 and Implement spring 2010  
**Number of Interns sought:** 1  
(looking for a graduate student with a broad science background and interest in Chemistry)

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### **Responsibilities of the Delta intern:**

- Participate in “greening” the general chemistry curriculum by creating and integrating unit(s) about sustainability and green chemistry into the standard course sequence
- Develop active classroom approaches (like Pogil <<http://new.pogil.org/>>)
- Create assessments of learning, collect data, look at student learning outcomes, and use this information to revise instruction;
- Write a manuscript about creating a green chemistry unit to plug into the standard gen. chem. Curriculum.

### **Benefits to the Delta intern:**

- Work with a faculty mentor and colleague in a department known for its attention to chemistry education
- Gain meaningful teaching experience in a course that engages students in active learning.
- Work on a campus with a stated mission of making science courses accessible to students with disabilities, and work with the unique instructional challenges in the laboratory sciences that this raises.
- Gain an understanding, through experience, of how to communicate effectively with different student audiences.
- Through the development, implementation and assessment of instructional materials, participate in curricular re-design aimed at making a chemistry course more interactive and engaging for students.
- Explore alternative pedagogical approaches and implement instructional reform that address active learning and integrate real-life and relevant green/sustainability examples into the course.
- Develop a Teaching-As-Research project and potentially publish on your efforts in science education.
- Be well prepared for future job interviews because of your real-world experiences in teaching

The project will focus on the development of one or more units on sustainability/green chemistry on topics like energy sources, the role of consumer decisions on the environment, soaps & detergents, medicinal chemistry. The units will be incorporated into Chem100 at UW-Whitewater. Chem 100 is a five credit, laboratory-based chemistry course targeted to non-science majors. The UW-Whitewater campus is approximately an hour drive from Madison. The Chemistry Department < <http://www.uww.edu/academics/majors/factsheets/chemistry.php> > has a history of interest in Chemistry Education and shares the Whitewater campus mission to be accessible to differently-abled students. The department has twelve-faculty and academic staff members that represent the spectrum of chemistry specialties.

**Starting point for Teaching-As-Research question(s):**

- Can connecting chemistry ideas to the hot topic of sustainability/green chemistry help students better translate what they are learning in the classroom to their everyday lives?
- Does this approach improve student learning of chemistry topics and their retention of the knowledge?
- Does the approach increase student interest in chemistry?
- Do more students declare a chemistry major at UW-Whitewater as a result of more engaging early chemistry courses? (A long term goal!)

**Delta Internship Program information:** <http://www.delta.wisc.edu>

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