

**UNIVERSITY OF WASHINGTON – SEATTLE CHEMISTRY DEPARTMENT
POST-DOCTORAL POSITION IN CHEMICAL EDUCATION
NSF IUSE Grant, PI Deborah Wiegand, co-PI Cynthia Stanich**

Overview

Investigate the impact of active-learning chemical demonstrations on student learning and performance gaps in general chemistry courses.

Responsibilities

- Conduct qualitative research including student focus groups with an emphasis on understanding student thinking and misconceptions as related to the demonstrations.
- Assist faculty in developing and implementing active learning curriculum based on chemical demonstrations for general chemistry including developing valid assessments of student learning as related to learning objectives for chemical demonstrations.
- Manage and analyze qualitative and quantitative data related to study
- Disseminate research materials and outcomes through publication in high quality refereed journals, presentation at conferences, development of project web-site, and facilitation of workshops.
- Contribute to research proposal preparation
- Supervise undergraduate researchers working on demonstration project
- Collaborate with a diverse group of staff and faculty while working independently to accomplish goals

Qualifications - Required

- PhD in chemistry, chemistry education, science education or a related field (Master's degree candidates considered if significant educational research experience)
- Experience successfully conducting qualitative educational research

Qualifications - Desired

- Emerging track record of research publications and dissemination at conferences.
- Demonstrated commitment to effective contributions as a team member, displaying flexibility towards job responsibilities and proven experience working in a team environment
- Demonstrated effective communication skills, both verbal and written, with well-developed cross-cultural sensitivity
- Ability to work with a high level of independence while also meeting deadlines
- Experience with curriculum development and project management

Expected start date: Negotiable

Term: One year, renewable for an additional year

Salary: \$47,484 annual plus benefits

Please send CV and cover letter to Madison Canfield, lmc93@uw.edu, by August 7th to ensure consideration. Cover letter should outline what contributions you will make to our project and how this post-doctoral experience fits into your career plans.