



## Postdoctoral scholar JOB DESCRIPTION

PAYROLL TITLE: Postdoctoral scholar

WORKING TITLE: Postdoctoral scholar

SUPERVISED BY: Dr. Carrie Tzou

### ABOUT THE GOODLAD INSTITUTE FOR EDUCATIONAL RENEWAL AT THE UNIVERSITY OF WASHINGTON BOTHELL:

The John I. Goodlad Institute for Educational Renewal promotes the democratic purposes of education by co-designing and studying processes for continuous renewal with schools, universities, and communities. By developing research-based partnerships that highlight democratic purposes and processes of education, the Goodlad Institute aims to energize a new national conversation about what justice-oriented, high-quality education and learning mean when they are grounded in equity-focused processes inclusive of the voices and lives of those we serve

While the Goodlad Institute's primary activities consist of externally funded projects for research, professional development, and service, these activities also provide opportunities for university students to participate in research and professional development projects.

### JOB DESCRIPTION:

This full-time postdoctoral scholar position is for a newly funded project with the National Science Foundation to design and study the development of undergraduate-level, equity-focused science content courses for aspiring and practicing elementary science teachers. The project is titled: **Improving the STEM preparation of K-5 preservice teachers through a project-based, interdisciplinary approach.** This position will be housed within the [Goodlad Institute for Educational Renewal](#) within UWB's School of Educational Studies and will work closely with STEM faculty from UW Bothell's School of STEM and School of Interdisciplinary Arts and Sciences. The successful candidate will be one who is familiar with theories of learning for undergraduate students, but also equity-centered issues of pedagogy and design in science and engineering education. The post-doctoral scholar will be under the direct supervision of Dr. Carrie Tzou at the University of Washington Bothell, but will also be part of a larger team that spans UWB and Dr. Megan Bang's group at Northwestern University.

Successful candidates will show evidence of a focus on equity-focused research in K-16 science and engineering learning and professional development. The post-doctoral scholar will be responsible for data collection, analysis, and writing research papers for dissemination to



peer-reviewed research and practitioner journals and conferences. Candidates must have a focus on equity-focused research as applied to the design of science and engineering-based learning environments. Position is contingent upon available funding. This position is renewable annually through the life of this 4-year grant.

JOB DUTIES (Background check may be required depending on the duties):

- Execute education research, including the implementation of a research plan, data collection, data processing, and data analysis.
- Collaborate with external partners for data collection
- Contribute to the writing of publications in peer-reviewed journals
- Develop conference proposals and presentation of findings at academic conferences
- Engage in iterative processes of design, research, and re-design

MINIMUM REQUIREMENTS:

PhD Degree in Science Education, Learning Sciences or related field. Must have experience working successfully with diverse communities in elementary settings. Must have experience conducting research in learning settings. Must demonstrate a commitment to issues of equity, identity, and culture in the design of Science and engineering learning environments. Excellent writing and presentation skills, experience in qualitative/quantitative data collection/analysis activities.

DESIRED REQUIREMENTS:

Familiarity with design of undergraduate science and/or engineering courses. Some professional experience working in a science- or engineering-related field is preferred. Excellent writing and presentation skills, experience in qualitative/quantitative data collection/analysis activities. Ability to manage internal and external partnerships while conducting simultaneous projects and project activities. Familiarity with Dedoose and other qualitative data analysis tools. Experience conducting professional development with practicing teachers and/or teaching elementary science methods courses.

Please submit the following materials to [this google form](#):

1. cover letter describing your interest and fit with the requirements for the position
2. curriculum vitae
3. names and contact information of two recommenders

The position is open until filled, with priority given to applications received on or before 5pm PST October 29, 2021. Please contact Dr. Carrie Tzou at [tzouct@uw.edu](mailto:tzouct@uw.edu) for more information or questions.



CONDITIONS OF EMPLOYMENT (DEPENDENT ON JOB DUTIES, WORK WITH OE/HR):

Postdoctoral scholars are represented by UAW 4121 and are subject to the collective bargaining agreement, unless agreed exclusion criteria apply. For more information, please visit the University of Washington [Labor Relations website](#).