

A postdoctoral fellowship position is available in the laboratory of Dr. Stephanie Gardner in the Department of Biological Sciences at Purdue University. Candidates must have a Ph.D. in a discipline-based education research field, science education, or learning sciences; have experience with mixed-methods research; have a strong research record; and have demonstrated interest in undergraduate science education. The primary responsibility of the person in this position is to contribute to a collaborative biology education research study aimed at revealing undergraduate student competence and difficulties with data handling and graphing in both analog and digital formats. Data from the study will be used to refine and expand a digital graphing tool in collaboration with California State University-Fullerton and SimBiotic Software company. Preference will be given to applicants who have experience in qualitative research methods including clinical interviewing and thematic coding of interview transcripts. Specific activities of the fellow include:

- Conducting think-aloud graphing interviews with undergraduate biology students
- Thematic coding of interview transcripts and text data from interviews conducted at Purdue and collaborating sites
- Analysis of participant graphing behaviors and the resulting graph artifacts
- Contributing to the direction of the project and its products through participation in team discussion of data and instructional development
- Dissemination of findings at science education meetings and journal articles

The successful candidate will have the opportunity for excellent professional development in the area pedagogy and instructional design through formal workshops at the Purdue Center for Instructional Excellence (<http://www.purdue.edu/cie/workshops/index.html>), informal mentoring, and the opportunity to contribute to the design of instructional materials to teach graphing. In addition, the fellow will interact with the developers at SimBiotic Software to quickly iterate on the graphing tool based on observations of students, and to brainstorm, provide feedback, editing, and participate in the iteration process on the assessment modules developed on the project. Purdue University has a large Biological Sciences department and one of the largest STEM education research communities in the country.

This full-time, twelve-month appointment can begin as early as September of 2017 and is contingent upon successful performance (with possible renewal for up to two years total). Candidates should submit electronically to Dr. Gardner (sgardne@purdue.edu):

1. a letter of application explaining why you are interested in the fellowship, what relevant experience you have, and how the position fits into your long-term professional goals
2. Curriculum Vitae
3. A two-page summary of research accomplishments
4. The names, titles, and contact information of at least two professional references.

Salary will be \$48,000-\$49,000, commensurate with experience and be accompanied by full University benefits. Application review will start on August 1st and continue until a suitable pool of applicants is found.

For more information please contact Dr. Stephanie Gardner (sgardne@purdue.edu).

Purdue University is an Equal Opportunity / Affirmative Action Employer.