

**Postdoctoral Scholar
Science Education Technology
Graduate School of Education
University of California, Berkeley**

Science and Technology

We seek a full-time postdoctoral scholar to join our research group in science and technology education. (See WISE.berkeley.edu and TELSCenter.org for more details.)

The scholar will work in a multidisciplinary collaboration funded by the National Science Foundation, including leaders in education, technology, and the science disciplines. Dr. Marcia Linn, at University of California Berkeley, is the Principal Investigator. Lydia Liu, at Educational Testing Service, Inc. and others collaborate on automated scoring and analysis technologies.

The scholar will join researchers who are creating new technologies, using data analytics, and designing open-ended inquiry activities to improve student understanding of complex science topics. We focus specifically on effective ways to support student conduct of open-ended projects and on ways to provide adaptive guidance as student's progress through inquiry projects. We seek activities for students as well as technologies to support teachers as they guide classes using online, interactive units in middle school and high school.

The work draws from current research on teaching, learning, computer science, software design, and computational linguistics. The group builds on previously successful uses of technology such as the Web-based Inquiry Science Environment (WISE). This research contributes to instructional frameworks to guide future education researchers, curriculum and assessment designers, and policy makers.

The postdoctoral scholar will conduct a research program, collaborate on the design of new learning technologies (including innovations in graphing in science, autoscoring of assessments, and adaptive guidance), author curriculum materials to test ways to support project work, and collaborate with local schools as part of a team. The scholar will have the opportunity to learn about advances on all fronts of technology and education and to contribute to all aspects of the work. The scholar will conduct and analyze research studies in collaboration with the various members of the TELS Research Community, guide designs for automated scoring and data reports and representations, as well as coordinate annual reports, Human Subjects protocols, teacher workshops, and research meetings. Using the knowledge integration framework, the scholar will design and refine curriculum and assessments, help adapt implementations for specific school sites, and analyze and disseminate research findings.

Minimum qualification required to be considered as an applicant for the position is a PhD or equivalent degree in a relevant field (e.g. education, psychology, mathematics, natural science, engineering, computer science etc.), or the completion of all degree requirements except the dissertation at the time of application.

Additional qualifications:

- Applicants must have completed their doctoral dissertations in a relevant field (e.g. education, psychology, mathematics, natural science, engineering, computer science etc.) by the start date of appointment.
- Applicants must have a background in the natural sciences, engineering, mathematics, or computer science
- Applicants must have research experience relevant to the learning sciences.
- Applicants must demonstrate the ability to work on a team, skill in collaborating with teachers and school leaders, interest in working in partnerships to develop innovations, strong writing skills, and interest in designing and analyzing complex research studies conducted in school settings.

Preferred qualifications:

- Experience in the design, implementation, and analysis of science materials and assessments.
- Quantitative analysis skills [including insights into analysis of computer log files].
- Experience working in schools in the U.S.

We seek a candidate, who can start as early as August 1, 2016. Start date is negotiable. The position, which has an annual salary starting at \$51,200, is for one year with possible renewal for a second and third year. The Graduate School of Education seeks candidates whose research or teaching has prepared them to contribute to our commitment to diversity and inclusion in higher education. UC Berkeley has an excellent benefits package and a number of policies and programs in place to support employees as they balance work and family.

All interested applicants should apply at <https://aprecruit.berkeley.edu/apply/JPF01070>. For information about the position or applications process, please contact Elizabeth Geer at emgeer@berkeley.edu. This position is open until filled.

A completed application will include 1) Curriculum Vitae: Your most recently updated C.V., 2) Statement of Purpose, 3) Contact information for 3 references. We will be contacting the references for the finalists for the position. [All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.berkeley.edu/evalltr.html>) prior to submitting their letters].

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>.