Post-Doctoral Research Scientist, Job #12947

The Mary Lou Fulton Teachers College and The Learning and Cognition Lab at Arizona State University invites applications for two (2) full-time Post-Doctoral Assistants (Research Scientists) for a one-year appointment. The Learning and Cognition Lab is directed by Professor Micheline Chi. These Post-Docs will be working on an IES-funded project. The goal of the ICAP project is to develop an online professional development (PD) module that teaches teachers and instructors how to apply ICAP in their classrooms, based on the knowledge we have gathered about what such a module should convey. The mode of teacher learning in the context of the PD module will involve interactive learning among groups of teachers, using the ICAP framework to give feedback and improve each other’s work. The goal of the PAIR-C project is to develop an online module that explains our theory about emergent science concepts of processes and ways that our PAIR-C framework can be adapted to explain science process-concepts.

This is a benefits eligible fiscal year appointment beginning August 1, 2019 to June 30, 2020. This is a fixed term appointment with no tenure implications.

The successful candidate must meet the required qualifications as listed below. The essential duties include; but are not limited to the following:

- Deciding on the best platform for developing the online module, and being able to write and debug code and scripts that customize the chosen platform. This might include adding a collaborative workspace and communication medium for gathering students' responses; finding and/or modifying available simulations of physical processes or creating new ones as needed.
- Working with other members of the projects, such as faculty, graduate students and undergraduate students.
- Run weekly lab meetings with other lab members to discuss progress, directions, etc.
- Supports the P.I. in project supervision, including tasks such as writing quarterly and annual reports, preparation for talks, etc.
- Learn how to code qualitative data, and assist as well as supervise undergraduate students in coding.
- Must be able to organize data, and present data using descriptive statistics and inferential stats (e.g. ANOVA, Chi-squared), graph data, etc.
- Supervises graduate and undergraduate assistants, enter their hours, provide evaluations, etc.
- Oversees daily management of laboratory tasks to ensure timely completion.
- Read newly published research papers in the literature, summarizes and integrates key findings/methods.
- Submit conference papers and journal articles.
- Help prepare manuscripts for publication by describing the methods and the results, along with interpretation of the results.
- Assist in grant writing, prepare data for analyses and interpret basic findings.

**Required Qualifications:**

- Ph.D. degree in the learning sciences, human-computer interactions, educational technology or related fields
- Programming skills
- Knowledge of statistics and experimental design
- Effective oral and written communication in English (such as present weekly project progress to lab members)
- Must be organized
- Can commit to regular office hours
- Strong competence with Excel and data organization, both digital and material
Desired Qualifications:

- Strong background in research, either in graduate school or post-graduate research
- Experience managing research projects
- Familiarity with complex dynamic systems and a natural science domain

About the College and University

Arizona State University’s Mary Lou Fulton Teachers College creates knowledge, mobilizes people and takes action to improve education. Nationally recognized as a leading innovator in teacher education and scholarly research, Mary Lou Fulton Teachers College prepares over 1,500 educators annually through bachelor’s, master’s and doctoral degree programs. Working with a mindset of creative intrapreneurship to bring positive change within organizations, Mary Lou Fulton Teachers College brings people and ideas together to improve student outcomes. We seek to develop a renewable resourcefulness in individual educators, in schools, in school districts and in communities. In line with the charter and design principles of Arizona State University, Mary Lou Fulton Teachers College asserts the following four core values:

- Pursue excellence at scale to achieve impact
- Exercise leadership through innovation
- Champion diversity of people and ideas
- Share responsibility for the strength of communities

Arizona State University is Carnegie classified as a doctoral university of highest research activity, a respected research institution in the PAC-12 Conference, and is developing a new model of an American research university: one that measures its academic quality by the education its graduates receive; one at which researchers, while pursuing their scholarly interests, also consider the public good; and one in which faculty expand the concept of community service by accepting major responsibility for the health, economic, and social development of their communities.

Application Deadline and Procedures

The initial application deadline is July 22, 2019; if not filled, applications will be reviewed on a rolling deadline every two weeks thereafter until the search is closed. The appointment may begin as early as August 1, 2019.

Applicants must submit 1) a cover letter which includes the name of the position you are applying to and a description of your fit to the position relative to the required and desired qualifications, 2) a resume, and 3) a list of three references with knowledge of your qualifications. Only electronic applications will be reviewed. To submit your application, please visit apply.interfolio.com/65191.

Questions regarding this position may be directed to Dr. Michelene Chi at mtchi@asu.edu.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity / Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. For a complete statement of ASU’s non-discrimination policy, refer to http://www.asu.edu/aad/manuals/acd/acd401.html and https://www.asu.edu/titleIX/.

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU’s Annual Security and Fire Safety Report is available online at https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf. You may request a hard copy of the report by contacting the ASU Police at 480-965-3456.