

Postdoctoral Research Scholar
ICAP Project #133466

The (ICAP) project is funded by the YiDan Foundation and led by Professor Michelene Chi at Arizona State University's Mary Lou Fulton Teachers College. The project aims to create and disseminate professional development (PD) that trains university instructors, specifically in STEMM (Science, Technology, Engineering, Mathematics, and Medicine) domains, on how to enact active learning strategies to deepen students' conceptual understanding. The PDs will be based on Dr. Chi's developed theory of student learning called ICAP, an acronym for "Interactive, Constructive, Active, and Passive," which are the major modes of learning and instruction.

The ICAP project invites applications for a postdoctoral research scholar. The Postdoctoral Research Scholar will contribute to the project's mission of translating the ICAP theory into professional development modules for college STEMM (Science, Technology, Engineering, Mathematics, and Medicine) instructors, to be disseminated locally and globally through in-person and online modes.

This is a benefits-eligible fiscal year (12-month) position that could start as soon as **May 1, 2024**. The position includes a competitive stipend with health benefits. The initial appointment is for one year, with subsequent renewal for a second year, contingent upon satisfactory performance, the needs of the university, and the availability of resources.

Essential Duties:

The candidate will be involved in carrying out experimental and classroom studies to assess the efficacy of different components of the PD module, as well as explore online platforms for the module. The candidate will also assist in delivering the PD to college STEMM instructors and be able to analyze the collected data.

Required Qualifications:

- Ph.D. degree in cognitive psychology, learning sciences, educational psychology, and educational technology;
- Experience or background in STEMM fields through coursework or practical applications within the past four years.
- Candidates must be within five years from receipt of their doctoral degree.

Desired Qualifications:

- Experience in designing and implementing controlled studies.
- Teaching experience in the higher education setting.
- Knowledgeable about research findings or experience carrying out studies on collaborative learning.
- Professional development experience with college instructors.
- Ability to work collaboratively across disciplines, particularly STEM fields.
- Strong collaborating skills working with a team, including the Project Director, graduate students, other assistants, and instructors across domains and communities to advance the [ASU Charter](#).
- Excellent written and verbal communication skills.
- Ability to travel to international countries that require visa applications and multiple entries into the US.

About the College

ASU's Mary Lou Fulton Teachers College creates knowledge, mobilizes people, and takes action to improve education. Nationally recognized as a leader in teacher preparation, leadership development, and scholarly research, Mary Lou Fulton Teachers College prepares over 7,600 educators annually. MLFTC faculty create knowledge by drawing from a wide range of academic disciplines to gain insight into important questions about the process of learning, the practice of teaching, and the effects of education policy. MLFTC mobilizes people through bachelor's, master's, and doctoral degree programs, through non-degree professional development programs, and through socially embedded, multilateral community engagement. MLFTC takes action by bringing people and ideas together to increase the capabilities of individual educators and the performance of education systems.

For more information about the College, please visit our website at <http://education.asu.edu/>.

Application Deadline and Procedures

The application deadline is **April 12, 2024**. Applications for a reserve pool will continue to be accepted on a rolling basis. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. Only electronic applications will be reviewed.

To apply, submit the following:

- Letter of application/interest
- Curriculum vitae
- Statement of Research Interest
- One professional recommendation letter
- Contact information for two professional references

Apply Now: apply.interfolio.com/141078



Equal Employment Opportunity Statement

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and 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, protected veteran status, or any other basis protected by law.

(See <https://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 Department at 480-965-3456.