ASU college of technology & innovation
ARIZONA STATE UNIVERSITY

POSTDOCTORAL SCHOLAR POSITION – ENGINEERING EDUCATION

The NSF funded TUES (Transforming Undergraduate Education is STEM) central resource "Deep Insights Anytime, Anywhere" (or DIA2) project is seeking a postdoctoral scholar at Arizona State University (ASU). The postdoctoral scholar will join a multidisciplinary collaborative team of researchers from ASU, Purdue, Stanford and Virginia Tech. The DIA2 project has three major goals: (1) Empower the TUES community to leverage TUES investments by understanding the knowledge hidden within its networks. We use a simple design philosophy – ***Deep Insights: No Manuals, No Training*** – to ensure that anyone can have access to powerful data mining and visualization tools; (2) Develop and apply large-scale knowledge mining and visualization techniques for characterizing the portfolio of TUES; (3) Leverage social media optimization and integration to catalyze diffusion of TUES innovations, and community building. Our approach combines theories of community formation, user-centered design, large-scale data mining, social network analysis, and interactive visualization theories. The postdoctoral scholar will be involved in various aspects of the project including development of DIA2, conducting user studies, assisting with data collection and analysis, and reporting results through conference/journal publications.

Candidates should be familiar with education and/or engineering education research and have a Ph.D. in computer science education, information science, engineering education, psychology, a STEM discipline, or a related field. The ideal applicant will have familiarity or experience in information search and retrieval algorithms (coding languages of PHP, SQL, and XML) and familiarity with human-computer interaction and user interface design. In addition, the candidate should be comfortable with both quantitative and qualitative research methods including experience with developing coding schemes and using statistical software. Applicants should demonstrate the ability to work on a team and interest in working in partnership to explore the diffusion of engineering education innovations.

We seek a candidate who can start immediately. Salary will be dependent on level of expertise and experience. The position will be offered as a one-year appointment with the potential for renewal contingent on funding and performance in Year 1.

To apply, send a CV, statement of interest in the position (no more than 1 page), and the name and contact information of two individuals who can serve as a reference to Professor Ann McKenna, ann.mckenna@asu.edu, Subject: "DIA2 Postdoc". Applications will be reviewed until the position is filled.

Arizona State University is an equal opportunity employer.

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