Assistant Professor in Computational Sensing  
School of Arts, Media and Engineering, Herberger Institute for Design and the Arts  
School of Electrical, Computer and Energy Engineering, Fulton Schools of Engineering  
Arizona State University

The School of Arts, Media, Engineering and the School of Electrical, Computer, and Energy Engineering at Arizona State University are seeking outstanding candidates for a joint tenure-track position beginning in Fall 2017 in the broad area of Computational Sensing. Ideal candidates will have demonstrated experience in co-design of hardware (optics/materials/sensors etc.) and algorithms (signal processing/optimization/machine learning etc.) for impactful use-inspired applications. Specific application areas may include but not limited to computational imaging, active materials, sensory-motor systems etc.

The tenure home is expected to be in the School of Arts, Media, Engineering. But based on specific candidate profiles, we expect the faculty will be jointly appointed in Electrical, Computer and Energy Engineering (ECEE), or one of the other Schools of Engineering such as Computer Science (CIDSE), Materials Science (SEMTE), Biomedical Engineering (SBHSE) etc. We are particularly interested in candidates interested in fostering inter-disciplinary scholarly collaboration: including but not limited to engineering, science, arts, and/or humanities.

The School of Electrical, Computer and Energy Engineering has programs in electrical engineering and computer engineering with approximately 2800 students, 70 faculty and $31 million in annual research expenditures. The Ira A. Fulton Schools of Engineering include nearly 19,000 students and over 300 faculty members who conduct nearly $100 million in research, spanning a broad range of engineering, construction and technology fields. The schools’ educational programs emphasize problem solving, entrepreneurship, multidisciplinary interactions, social context and connections.

The School of Arts, Media and Engineering is a uniquely transdisciplinary program in media arts and sciences. The appointee will be supported to collaborate with other faculty in significantly advancing experiential media and more broadly the relation between culture and computing. The appointee is expected to further existing research connections between the School of Arts, Media and Engineering and the Fulton Schools of Engineering in areas of common interest related to the appointee’s interests and strengths.

The School of Arts, Media and Engineering offers a PhD and a Masters in media arts and sciences, an undergraduate BA in Digital Culture with concentrations in nine collaborating units spanning the arts, design, sciences and engineering. The successful candidate is expected to be involved in the development of new undergraduate and graduate curriculum in Digital Culture, and further develop our connections to the public and private sector. The school has state-of-the-art facilities for the development of embodied interactive media systems with focus on rehabilitation, education, cultural networks and enactive art. AME faculty can access significant federal, private foundation and industry support along with clinical, education and cultural partnerships to develop and deploy these systems.

Faculty at the School of Arts, Media and Engineering direct two paradigm-shifting centers of research: the Center for Science and the Imagination (http://csi.asu.edu), and Synthesis
The Herberger Institute for Design and the Arts is a vibrant example of the philosophy of a New American University. The institute is built on a combination of disciplines unlike any other program in the nation. In addition to the School of Arts, Media and Engineering, the Herberger Institute comprises The Design School, the schools of Art, Dance, Music, and Theatre and Film, as well as the ASU Art Museum. The institute is part of a university community comprising four differentiated campuses, each positively impacting the economic, social, cultural and environmental health of the communities it serves.

Arizona State University’s model for the New American University dissolves the barriers between disciplines and fosters collaboration among diverse units. We also assume major responsibility for the economic, social and cultural vitality of the communities that surround us. ASU is a place where local solutions have a global impact. More than 80,000 students and 2,800 faculty make ASU their academic home in the metropolitan Phoenix area – the nation’s fifth largest city. ASU champions intellectual and cultural diversity, welcoming students from all fifty states and more than a hundred nations across the globe.

**Required Qualifications**

Required: A PhD in Electrical Engineering, Computer Science, Computer Engineering, or some closely related field, with a specialization in computational sensing. Some teaching experience at undergraduate or master’s level. Ability to define, lead and find support for research.

**Desired Qualifications**

Evidence of ability and willingness to collaborate on creative applications. Ability to communicate technical ideas to non-specialized audiences. Ability to mentor graduate students or advanced undergraduates in research projects.

**Application Deadline**

Application deadline is March 6, 2017; if not filled, every two weeks thereafter until search is closed.

**Application Procedure**

Send a letter of interest, CV, statement of research, statement of teaching vision (consistent with the transdisciplinary nature at AME), three to five representative publications and/or media products, and names, addresses and telephone numbers for three to five professional references, via one zipped attachment, to: CompSensing-search@asu.edu. Zipped files sent to this email address are limited to 10MB. For larger files, candidates may alternatively provide a URL to which the search committee may access the candidate’s materials. Please note that if a URL is provided, the site must include only the above requested documents in order for the application packet to meet the requirements. For more information, please email: xinwei.sha@asu.edu

ASU conducts pre-employment screening for all positions, which includes a criminal background check, verification of work history, academic credentials, licenses and certifications.

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. See ASU's complete non-discrimination statement at https://www.asu.edu/aad/manuals/acd/acd401.html. See ASU’s Title IX policy at www.asu.edu/titleIX.