Assistant Research Professor, Experiential Complex Systems  
School of Arts, Media and Engineering  
Herberger Institute for Design and the Arts  
Arizona State University

The School of Arts, Media and Engineering (ame.asu.edu) in the Herberger Institute for Design and the Arts at Arizona State University invites applicants for Assistant Research Professor, Experiential Complex Systems beginning in academic year 2017-2018. The successful candidate will lead the scientific dimensions of research-creation at Synthesis (synthesis.ame.asu.edu). Synthesis is recognized internationally as a unique center for the experimental study of experience fusing methods from art, philosophy and technoscience.

Arizona State University’s model for the New American University dissolves the barriers between disciplines and fosters collaboration among diverse units. Some of ASU’s uniquely innovative research units with which Synthesis and AME collaborate include the ASU-Santa Fe Center for Complex Biosocial Systems, the Global Institute of Sustainability, and the Center for Science and the Imagination. The University also assumes major responsibility for the economic, social and cultural vitality of the communities that surround us. More than 72,000 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.

ASU’s Herberger Institute for Design and the Arts, the largest comprehensive design and arts school in the nation, is a vibrant example of the of the New American University philosophy. With nearly 5,000 students, more than 400 faculty and faculty associates, 135 degree options and a tradition of top-ranked programs, the Herberger Institute is built on a combination of disciplines unlike any other program in the nation. The institute includes the School of Art, School of Arts, Media and Engineering, The Design School, School of Film, Dance and Theatre, School of Music, and the ASU Art Museum. Through recognizing that design and the arts are critical resources for transforming society and solving complex problems, ASU’s Herberger Institute is committed to positioning artists, scholars, designers, and educators at the center of public life. herbergerinstitute.asu.edu

The School of Arts, Media and Engineering is a leading transdisciplinary program in media arts and sciences. The appointee's efforts will merge with efforts of other faculty for the achievement of significant advancements in 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 in areas of common interest related to the appointee's interests and strengths.

The School of Arts, Media and Engineering offers a PhD in media arts and sciences, an undergraduate degree in Digital Culture (http://digitalculture.asu.edu) with concentrations spanning the arts, design, sciences and engineering.
**Required Qualifications**
PhD in Computer Science or closely related area. Plus two years of post-graduate experience in scientific simulations and real-time responsive media environments. Record of publication and grant preparation in technoscientific domain.

**Desired Qualifications**
Experience working with the following: Computational models of complex and non-linear dynamical systems from multiple domains, including atmospheric sciences and ecology; development of real-time responsive media in Max/MSP/Jitter; data sonification and real-time analysis and synthesis of auditory environments; high-performance and GPGPU computing; networking tools and protocols for real-time distributed media (OSC, Syphon, Spout, hardware video routing), and steerable simulations.

We seek a candidate with experience in research spanning arts, design, humanities and engineering, who can take initiative in developing relationships with partners and sponsors of research in responsive environments and experiential systems.

**Application Deadline**
The application deadline is October 23, 2017; if not filled, reviews will occur every two weeks thereafter until search is closed. Screening of candidates will begin immediately; for best consideration, application materials should be provided by October 23, 2017.

**Application Procedure**
Send a letter of interest, CV, statement of research, statement of teaching vision (consistent with the transdisciplinary nature at AME), three representative publications and/or media products, and names, addresses and telephone numbers for three to five professional references to: http://apply.interfolio.com/45874.
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:
Lauren.S.Hayes@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://asu.edu/aad/manuals/acd/acd401.html. See ASU’s Title IX policy at https://www.asu.edu/titleIX/.