Call for Participation in NSF-Funded Virtual Workshop on Next Generation Learning-Centered Environment for Architecture, Engineering, and Construction (AEC) Education
November 15 to 17, 2021, from 12:00 PM to 5:00 PM EST (GMT-4); Virtual (Zoom)

You are invited to participate in an NSF-funded virtual workshop with the goal of **creating a shared vision of the next generation learning-centered environment for AEC education**, which requires a systematic understanding of the relationship between humans, learning, and technology in varied social contexts. The four main themes of the workshop are:

1. **AEC Curricula and Industry Practice**: The human-technology frontier in AEC workplaces is changing in many fundamental aspects, particularly in these unprecedented times of a global health pandemic. Thus, it is important to answer questions that are critical to shaping the future of AEC education, e.g., what are the gaps between AEC curricula and industry practice, and what is the role of emerging technologies in creating and/or closing these gaps?

2. **Technology and Learning**: Technology-mediated learning, including technology-generated artifacts, such as 3D design models or construction site images, affect learning. Fundamental questions will be explored related to how emerging technologies, coupled with advancements in cognitive and education sciences, form disruptive forces to improve the learning environment.

3. **Disciplinary Gap**: Multidisciplinary teamwork and communication are essential skills for AEC students. Opportunities offered by emerging technologies have not been fully explored, such as new pedagogical strategies to deliver interdisciplinary learning content that is conducive to multiple disciplines.

4. **Digital Inequity**: The AEC education communities have widely embraced the use of computer technologies in both in-person and online learning. Thus, it is important to understand the extent and influence of digital inequity while creating technology-intensive learning environments, and address grand challenges by developing new pedagogical strategies.

The workshop is organized in collaboration with the American Society of Civil Engineers (ASCE) and the American Society for Engineering Education (ASEE). This event will be a three-day online workshop that will take place on November 15-17, 2021, from 12:00 PM to 5:00 PM EST (GMT-4). There is no workshop registration fee for selected participants. For full consideration, please submit your application, including **a 500-word written statement describing your vision of the next-generation technology-enabled learning environment in AEC education**, using the following link by **October 1, 2021**. The organizing committee will review the applications and

vision statements as soon as they are received and notify applicants by October 21, 2021. Registration link:

http://lsu.qualtrics.com/jfe/form/SV_1zyG1kJATHghiku

We encourage faculty members in AEC or education disciplines, professionals in the AEC industries and related information technology industry sectors, and members of professional societies related to AEC to apply. In particular, applicants from community colleges and non-R1 and Minority Serving Institutions (MSIs) are encouraged to apply.

Please contact the organizing committee with any inquiries or questions.

Organizing committee:
- Dr. Yimin Zhu (Chair), Louisiana State University, Email: yiminzhu@lsu.edu
- Dr. Amir Behzadan, Texas A&M University, Email: abehzadan@tamu.edu
- Dr. Amirhosein Jafari, Louisiana State University, Email: ajafari1@lsu.edu

Advisory committee:
- Dr. Raymond Issa (Chair), University of Florida
- Dr. Sez Atamturktur, Penn State University
- Dr. Yvette Pearson, University of Texas at Dallas
- Dr. Sheryl Sorby, American Society for Engineering Education
- Dr. Shahin Vassigh, Florida International University