

## **Assistant or Associate Professor – Emerging Construction Technologies**

Gerald D. Hines College of Architecture and Design at the University of Houston

### Description

The University of Houston's Gerald D. Hines College of Architecture and Design (CoAD), in partnership with the Department of Construction Management (CM) in the Cullen College of Engineering (CCE), invites applicants for an Assistant or Associate Professor in Emerging Construction Technologies. This is a cross-college proposal for a Presidential Frontier Faculty hire within the Sustainable Communities and Infrastructure thrust. The CoAD has recently invested in developing two labs – The Construction Robotics and Fabrication Technologies (CRAFT) Lab and the Keeland Design Exploration Lab – that are strategically coordinated to become national leaders for design innovation in the areas of advanced construction automation, sustainable building fabrication, and circular material research. This position seeks to broaden the impact of these labs and the two programs through synergistic collaborations between faculty, students, and industry partners.

Candidates should have demonstrated expertise in design, automation/autonomy, and sustainable construction materials. These areas align with UH's Sustainable Infrastructure and Smart Cities research priorities. Specifically, the hire would work with the two labs of the CoAD and CM-CCE to develop construction automation projects using various sustainable materials such as 3D printed earthen materials and recycled plastics, carbon-negative timber assemblies, and lightweight composite structures. Candidates should have both practical experience with emerging construction technologies as well as the capacity to integrate these technologies into the curriculum through innovative teaching.

The tenure-track/tenured position is split between Architecture (75%) and Engineering (25%). This joint position is designed to foster new collaborations between faculty, students, and external industry partners to advance our efforts toward realizing more sustainable construction practices in developing our cities and communities.

The Presidential Frontier Faculty (PFF) program is a university-wide integrated interdisciplinary faculty hiring campaign supported by President Renu Khator, the Office of the Provost, and the Division of Research. The program encompasses hiring a large cohort of convergence research faculty to respond to federal priorities and societal challenges. UH holds faculty in the PFF Program to the highest standards and supports them with significant start-up funding, mentoring programs, and extensive training. PFF faculty will be intensively trained in proposal development and writing at the highest level.

## Application

Only electronic applications will be accepted. Apply at: <http://jobs.uh.edu>

Applicants should provide the following:

A letter of interest responding to the outlined duties and qualifications

Curriculum Vitae

Portfolio (professional work, academic work, publications, student work)

Contact information for three references

Please include all required documents indicated in the posting. Only applications with all required documents will be considered. All positions at the University of Houston are security sensitive and require a criminal background check.

For full consideration, candidates are encouraged to submit their applications by January 8, 2024. The search committee will continue to accept applications until a suitable candidate is identified for the position. Rank and salary is commensurate with experience and competitive with the University of Houston's national peer institutions in architecture. The successful applicant is expected to start in mid-August 2024. Apply: <http://jobs.uh.edu>, posting number FAC003243.

For more information about the University of Houston Gerald D. Hines College of Architecture and Design please visit: [www.arch.uh.edu](http://www.arch.uh.edu)

For further information or questions, please contact: Andrew Kudless, Search Committee Chair, [ajkudles@central.uh.edu](mailto:ajkudles@central.uh.edu)

The University of Houston is responsive to the needs of dual career couples.

The University of Houston is an Equal Opportunity/Affirmative Action institution and recognizes protected classes of race, color, sex (including pregnancy), genetic information, religion, age (40 and above), national origin, disability, veteran status, sexual orientation, gender identity or status, and gender expression as required by federal law. Veterans and persons with disabilities are encouraged to apply.

## Qualifications

### Minimum Qualifications:

Accredited terminal degree in Architecture or related disciplines.

An emerging record of outstanding cross-disciplinary scholarship, teaching, and creative work related to design, construction, and advanced technologies.

Proficiency in written and oral communication in English.

### Preferred Qualifications:

A record of funded research in design and emerging construction technologies.

A record of teaching excellence in design media, fabrication, and design studios.

A record of innovative professional practice demonstrating the application of emerging technologies in built works.

A record of service within the profession and academia.

Notes to Applicant: Official transcripts are required for a faculty appointment and will be requested upon selection of the final candidates. All positions at the University of Houston are security sensitive and will require a criminal background check.