

COLUMBIA UNIVERSITY
School of Engineering and Applied Science

Faculty Position in Civil Engineering and Engineering Mechanics

The Department of Civil Engineering and Engineering Mechanics at Columbia University in the City of New York invites applications for a tenure-track faculty position. Appointments at the assistant professor, associate professor or full professor levels will be considered.

Applications are specifically sought in the general field of **Smart Cities**. Areas of emphasis include urban systems modeling and simulation and the future of urban transportation. Representative areas of interest for the urban systems modeling and simulation include: complex and interdependent dynamic networks (including infrastructure interdependencies); urban systems digital twin development based on sensor data informed by civil domain expertise; urban modeling at different scales from building systems modeling to regional systems; transportation, water and energy systems performance assessment and optimization; internet of things solutions to smart infrastructure management; future cities scenarios. Representative areas of interest for the future of urban transportation include: transportation modalities; information and simulation based coordination of different modes of transportation; adaptation of legacy public transportation infrastructure with emerging disruptive transportation modalities; transportation system management and resilience.

Candidates must have a Ph.D. or its professional equivalent by the starting date of the appointment, and have the potential to do pioneering research and to teach effectively.

The successful candidate is expected to further the advancement of the department by developing an externally funded research program in the area of Smart Cities, making contributions to the undergraduate and graduate educational mission of the Department and establishing multidisciplinary research and educational collaborations with academic departments and units across Columbia University. The Department is especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

For additional information and to apply, please see: <http://engineering.columbia.edu/faculty-job-opportunities>. Applications should be submitted electronically and include the following: curriculum-vitae including a publication list, a description of research accomplishments, a statement of research/teaching interests and plans, contact information for three people who can provide letters of recommendation, and up to three pre/reprints of scholarly work.

Columbia University is an Equal Opportunity/Affirmative Action employer -- Disability/Veteran