

Multiple Tenure-Track Faculty Positions

School of Civil and Environmental Engineering

Georgia Institute of Technology

Faculty Positions in Civil and Environmental Engineering (CEE)

The School of Civil and Environmental Engineering (www.cee.gatech.edu) at the Georgia Institute of Technology invites applications for multiple tenure-track faculty positions in the areas of Construction and Infrastructure Systems Engineering, Environmental Engineering, and Geosystems Engineering. Applicants will be considered at all ranks, with a preference for the Assistant Professor rank, in the following particular areas:

- In **Construction and Infrastructure Systems Engineering (CISE)**, one priority area focuses on generative AI in Construction to enable smart, sustainable, resilient, and healthy built environments that enhance societal quality of life. The areas of particular interest include Metaverse, Digital Twins, Cyber-Physical Systems (CPS), human-building interaction, human-technology interaction, lifecycle analysis of infrastructure, and Automation & Robotics. Areas of specific teaching interest focus on core construction engineering and management topics, including BIM, scheduling, cost estimating, construction law, and innovation in construction.
- In **Environmental Engineering (ENVE)**, we are seeking candidates in areas aligning with our strategic focus on local, regional, and global-scale air quality with engineering linkages to policy, control, and health. Particular emphasis is given to the topic of climate change and its atmospheric impacts. This area addresses the CEE cross-cutting themes of Healthy Communities and Sustainable Systems, as well as the grand challenges in environmental engineering identified by the 2019 National Academies report.
- In **Geosystems Engineering (GEO)**, we are seeking candidates with emphasis on geomechanics in the context of climate change, sustainable/resilient urban geotechnics, as well as new developments in novel sensing, testing or data analysis techniques associated with infrastructure construction and/or performance under normal and extreme loading.

Outstanding faculty candidates in other areas of Civil Engineering including Structural Engineering, Mechanics and Materials (SEMM), Transportation Systems Engineering (TSE), and Water Resources Engineering (WRE) will also be considered. Candidates are expected to demonstrate an exceptional commitment to the teaching and mentoring of students.

Georgia Tech prides itself on its technological resources, collaborations, high-quality student body, and its commitment to building an outstanding and diverse community of learning, discovery, and creation. We strongly encourage applicants whose values align with our institutional values, as outlined in our [Strategic Plan](#). These values include academic excellence, diversity of thought and experience, inquiry and innovation, collaboration and community, and ethical behavior and stewardship. Georgia Tech has policies to promote a healthy work-life balance and is aware that attracting faculty may require meeting the needs of two careers.

Job Responsibilities

CEE faculty are expected to lead independent research at the cutting edge of their field and build a strong, extramurally funded research program and national/international recognition. In addition, they are expected to teach both undergraduate and graduate level courses, mentor a diverse student body, and conduct service to the school, institute, and profession.

Minimum and Preferred Qualifications

An earned doctorate is required by the start of the appointment. Successful candidates have an exemplary track record of research accomplishments as well as expertise or demonstrated interest in teaching and mentoring a diverse student body and service.

Application Requirements

Applicants should submit: (1) a cover letter of application indicating the area of interest; (2) curriculum vitae; (3) a statement of research interests; (4) a description of teaching interests as well as your advising/mentoring philosophy, (5) in two pages or less, please outline how your professional and academic experiences have prepared you to support and apply Georgia Tech's mission and values; and (6) the names and contact information for at least three references.

Application materials should be submitted as .PDF files via https://bit.ly/GT-CEE_Open-Rank_Tenured_Tenure-Track_Faculty_Positions. Requests for information may be directed to Dr. Jian Luo (jian.luo@ce.gatech.edu), Chair of the CEE Faculty Search Committee. Applications will be considered beginning November 15, 2023, but the search will continue until the positions are filled. A background check must be completed prior to beginning employment.

About Georgia Tech

Georgia Tech is a top-ranked public research university situated in the heart of Atlanta, a diverse and vibrant city with numerous economic and cultural strengths. The Institute serves more than 45,000 students through top-ranked undergraduate, graduate, and executive programs in engineering, computing, science, business, design, and liberal arts. Georgia Tech's faculty attracted more than \$1.4 billion in research awards this past year in fields ranging from biomedical technology to artificial intelligence, energy, sustainability, semiconductors, neuroscience, and national security. Georgia Tech ranks among the nation's top 20 universities for research and development spending and No. 1 among institutions without a medical school.

Georgia Tech's Mission and Values

Georgia Tech's mission is to develop leaders who advance technology and improve the human condition. The Institute has nine key values that are foundational to everything we do:

1. Students are our top priority.
2. We strive for excellence.
3. We thrive on diversity.
4. We celebrate collaboration.
5. We champion innovation.
6. We safeguard freedom of inquiry and expression.
7. We nurture the wellbeing of our community.
8. We act ethically.
9. We are responsible stewards.

Over the next decade, Georgia Tech will become an example of inclusive innovation, a leading technological research university of unmatched scale, relentlessly committed to serving the public good; breaking new ground in addressing the biggest local, national, and global challenges and opportunities of our time; making technology broadly accessible; and developing exceptional, principled leaders from all backgrounds ready to produce novel ideas and create solutions with real human impact.

About the School of Civil and Environmental Engineering at the Georgia Institute of Technology

The School of Civil and Environmental Engineering at Georgia Tech currently has over 600 undergraduate students, nearly 400 graduate students, and 54 tenure-track faculty members. Women comprise 47% of the undergraduate population, and more than 26% of the undergraduate student population identifies as a member of under-represented minority groups. Thirteen faculty members are women, and seven faculty members identify as a member of under-represented minority groups. Twenty-five faculty members hold endowed chairs or professorships with 30% of them being women faculty. The School's Strategic Vision is available at this link: www.ce.gatech.edu/strategic-vision. The 2023 US News and World Report rankings place the Civil Engineering undergraduate program at #2 and the Environmental Engineering undergraduate program at #3 in the country. The corresponding graduate programs are ranked #3 and #5, respectively.

Equal Employment Opportunity

Georgia Tech provides equal opportunity to all faculty, staff, students, and all other members of the Georgia Tech community, including applicants for admission and/or employment, contractors, volunteers, and participants in institutional programs, activities, or services. Georgia Tech complies with all applicable laws and regulations governing equal opportunity in the workplace and in educational activities. Georgia Tech prohibits discrimination, including discriminatory harassment, on the basis of race, ethnicity, ancestry, color, religion, sex (including pregnancy), sexual orientation, gender identity, national origin, age, disability, genetics, or veteran status in its programs, activities, employment, and admissions. This prohibition applies to faculty, staff, students, and all other members of the Georgia Tech community, including affiliates, invitees, and guests.

Georgia Tech is a member of the University System of Georgia (USG), where every member of the community is required to adhere to the USG [Statement of Core Values](#) – Integrity, Excellence, Accountability, and Respect – that form and guide the daily work of the organization. USG and its institutions foster an environment where all members of the USG community are free to share ideas and opinions. Learn more about [Academic Freedom and Freedom of Expression](#).