Assistant Professor
Washington State University

Job Title	Assistant Professor
Department	Civil and Environmental Engineering https://ce.wsu.edu/
Institution	Washington State University Pullman, Washington
Date Posted	Jan. 19, 2024
Application Deadline	Feb. 29, 2024
Position Start Date	Aug. 16, 2024
Job Categories	Assistant Professor
Academic Field(s)	Civil Engineering
Apply Online Here	https://wsu.wd5.myworkdayjobs.com/en-US/WSU_Jobs/details/Assistant-Professor_R-10583?jobFamilyGroup=7a7d62448767019c28e399bff8053d45&locations=d013a30e9e950101
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NOTICE OF VACANCY

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Faculty Position in Structural Engineering

The Department of Civil and Environmental Engineering (CEE), within the Voiland College of Engineering and Architecture, at Washington State University (WSU) is seeking highly motivated candidates for one (1) permanent, full-time academic year, tenure-track faculty position at the level of Assistant Professor. It is anticipated that the successful candidate will begin the appointment on August 16, 2024. Candidates must have expertise in timber design, structural steel design, and/or hybrid design with timber and/or steel. Additional background in structural dynamics and/or modular construction is preferred. The position is located at WSU Pullman, WA campus.

The ideal candidate should demonstrate high-quality research and have a commitment to teaching excellence. Individuals with demonstrated abilities to collaborate in large projects, especially across disciplines, are highly encouraged to apply. Abilities to teach and mentor a diverse student body, supervise graduate students, and enhance the curriculum in structural engineering are desired. An ability to teach core undergraduate fundamental courses in structures, structural analysis, and structural design and modeling is desired. Interest to teach courses on timber design, structural steel design, and structural dynamics is preferred.

QUALIFICATIONS & EXPERIENCE

Suitable candidates must have:

- An earned doctoral degree in Civil or Architectural engineering or a closely related field at the start of the appointment.
- Ability to develop an externally funded research program leading to national recognition, teach courses pertaining to structural engineering, and contribute to professional and departmental service.
- Excellent communication skills and a demonstrated commitment to collaborate with diverse internal and external groups.

The following are preferred qualifications:

- S. degree in Civil Engineering
- Strong records of scholarship, teaching, and professional service
- A demonstrated background in timber design, structural steel design, and/or hybrid design with timber and/or steel
- Interest in working with other researchers, particularly in the area of hybrid or modular structures
- Ability to demonstrate the potential for meeting the expectations through activities such as journal

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publications, professional conference presentations, teaching experience, outreach, and related activities
- Desire to attain Professional Engineering licensure within five years of starting the appointment

APPLICATION PROCESS

Applications must include a cover letter indicating which position is being applied to and describing relevant experiences and interest in the position; curriculum vitae; statements of research and teaching philosophy and interests; up to 3 academic publications; and names of at least three references with titles, addresses, business telephone numbers, and e-mail addresses. References will not be contacted without the consent from applicants. The application must be submitted online at www.wsujobs.com. Screening of applicants will begin November 27, 2023 and continue until the position is filled.

Washington State University is an equal opportunity/affirmative action educator and employer. Members of ethnic minorities, women, special disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veterans, persons of disability and/or persons age 40 and over are encouraged to apply. The Voiland College of Engineering and Architecture seeks qualified candidates who can make contributions to the diversity and excellence of the university community through their teaching, research, and/or service. WSU is committed to excellence through diversity, has faculty policies including a partner accommodation program, and a NSF ADVANCE Institutional Transformation grant (https://advance.wsu.edu/).

LABORATORY FACILITIES AND EQUIPMENT

A variety of laboratory facilities and equipment on the WSU Pullman campus are available for use by the successful candidate. The PACCAR interdisciplinary research and education facility was constructed in 2015. This facility houses new material, environmental, and structural laboratories. The Simpson Strong-Tie Structural and Research Laboratory (SSSRL) in the PACCAR facility has a 2-story strong wall and 40’ by 60’ strong floor. The strong wall has 200-kip capacity at its top mounting point located 16’ above the strong floor. The strong floor has embedded 1.25”-diameter threaded anchors arranged on a 2 ft. x 2 ft. grid to enable easily configurable and adaptable test setups. The SSSRL has an outdoor staging area and a dual-hook 7.5 ton overhead crane. The SSSRL utilizes a 90 gpm hydraulic pump to supply multiple servo-hydraulic actuators and testing machines. The laboratories have servo-hydraulic actuators ranging from 10-kip to 300-kip capacity and stroke lengths between 10” and 48”. Two material characterization laboratories have servo-hydraulic axial test frames ranging from 22 kip to 200 kip capacity and electromechanical universal testing frames ranging from 2 kip to 30 kip capacity, all with associated LVDTs, extensometers, and National Instruments (NI) data acquisition

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systems. Two concrete and cementitious materials laboratories have compression testing machines, an environmental chamber, and a humidity-controlled curing chamber. The Composite Materials & Engineering Center (CMEC) has an additional structural testing laboratory located at the WSU Research Park, which has a 500 kip reaction floor and two 7.5 ton overhead cranes. This facility also has a cross-laminated timber (CLT) press. The CLT pilot line USNR® pneumatic press can make a panel that is up to 12” thick and 6’x12’ in area, with application of pressure up to 120 psi. It is equipped with an Apquip® bead application resin system and a PLC for press and glue application. It also includes a Wenig commercial 4-sided planer for lamstock preparation and a primer spray application system.

A culture of multidisciplinary research with a diverse group of faculty and students is valued, and the successful candidate will be expected to contribute to existing research efforts within the Department of Civil and Environmental Engineering (www.ce.wsu) and the Composite Materials & Engineering Center (CMEC) (www.cmec.wsu.edu). The successful candidate will have the opportunity to join faculty in CMEC housed in the PACCAR Environmental Technologies Building. CMEC is an interdisciplinary research organization at Washington State University focused on developing new building materials and manufacturing technologies from recycled and renewable resources, as well as developing innovative structural systems and design methods to effectively utilize new materials while maintaining economic viability and public safety. CMEC has maintained long-standing associations with the sustainable infrastructure industry. CMEC includes ICC accredited laboratory facilities.

EEO/AA Policy

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WSU employs only U.S. citizens and lawfully authorized non-U.S. citizens. All new employees must show employment eligibility verification as required by the U.S. Citizenship and Immigration Services.

WSU is committed to providing access and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation in the application process, contact Human Resource Services: 509-335-4521 (v), Washington State TDD Relay Service: Voice Callers: 1-800-833-6384; TDD Callers: 1-800-833-6388,

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509-335-1259(f), or hrs@wsu.edu.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Search Committee
Civil and Environmental Engineering
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Pullman, WA 99164

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Contact E-mail annie.hansen@wsu.edu