

FACULTY POSITION IN INDUSTRIAL ENGINEERING

SCHOOL OF MECHANICAL, INDUSTRIAL AND MANUFACTURING ENGINEERING Oregon State University

The Oregon State University (OSU) Industrial Engineering (IE) Program in the School of Mechanical, Industrial, and Manufacturing Engineering invites applicants for a full-time tenure-track assistant professor position. We seek scholars with expertise in large-scale optimization and machine learning methods. Areas of application interest include, but are not limited to:

- Autonomous systems
- Healthcare systems
- Logistics systems
- Power systems
- Transportation systems

Ideal candidates will have some demonstrated experience in using machine learning methods to advance optimization models in specific domains.

Oregon State offers BS, MS, MEng, and PhD degrees in IE. The program has approximately 100 undergraduate students and 60 graduate students. The College of Engineering has over 170 faculty, and the IE program includes five permanent members along with instructional faculty. Program research is focused on the future of work with humans and intelligent systems collaborating in large scale systems. Our faculty develop new theories in systems engineering, process improvement, engineering management, information systems, manufacturing systems and logistics. Faculty and students also conduct empirical research to test and apply theory to industrial or societal-scale systems and data sets. Our culture is one of collaborative research, cooperation, and individuals taking initiative to better the program. The position has the opportunity for courtesy appointments with the AI Program and/or the Robotics Program. The successful applicant's research will be empowered by one of the nation's most powerful AI supercomputers in the Jen-Hsun Huang and Lori Mills Huang Collaborative Innovation Complex.

Candidates should hold a Ph.D. in industrial engineering, applied mathematics, computer science, computational science and engineering, or other relevant discipline in the engineering or mathematical sciences by the start date of employment. Candidates should also have a demonstrated record of scholarship. Qualified candidates with relevant industrial or national laboratory experience are also strongly encouraged to apply. Appointment is anticipated at the Assistant Professor rank.

Applicants should demonstrate a strong commitment and capacity to initiate new extramurally funded research, and also to expand, complement, and collaborate with existing research programs in OSU's College of Engineering, and beyond. Applicants must also demonstrate a strong commitment to graduate and undergraduate teaching, including developing new courses related to their research expertise, as well as PhD student supervision. Interest in, or experience with technology transfer and patents is considered a strength.

View the full position announcement at <http://jobs.oregonstate.edu/> (posting #P08147UF). Apply online with a letter of interest; vita; a two-page statement of research interests; a one-page statement of teaching interests; a one-page statement outlining how your experience, education, and/or training will help us build a more inclusive, collaborative, and diverse community; and names and contact information for three references.

Review of applications will begin on **October 01, 2024**, and will continue until positions are filled.

Oregon State University has a strong institutional commitment to diversity and multiculturalism and provides a welcoming atmosphere with unique professional opportunities for leaders from underrepresented groups. OSU seeks diversity as a source of enrichment for our university community. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who share our vision of an inclusive community. The College of Engineering ranks high nationally in terms of the percentage of women faculty, and the university supports dual-career applications.

Position Duties

50% Teaching and related duties:

Teach undergraduate and graduate courses.

40% Research and scholarly activities:

Direct and engage in research, scholarship, and mentorship of graduate students.

10% Service:

Provide service to the Program, School, College, University, and Profession.

Minimum/Required Qualifications

Minimum/Required Qualifications:

- Ph.D. in industrial engineering, applied mathematics, computer science, computational science and engineering, or other relevant discipline in engineering or computational sciences
- Demonstrated record of scholarship in large-scale optimization
- Demonstrated potential for or track record of securing externally competitive research funding
- Demonstrated skills or potential to teach undergraduate and/or graduate courses, or equivalent
- Ability to communicate industrial engineering concepts to a technical and general audience
- Demonstrable commitment to promoting and enhancing equity, diversity, and inclusion

- This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per OSU Standard 576-055-0000 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months.

Preferred (Special) Qualifications

- Application area(s) include autonomous systems, healthcare systems, logistics systems, power systems, or transportation systems
- Demonstrated experience of working on industrial-scale systems and problems
- Demonstrated experience producing and/or contributing to open-source software
- Research topic with strong potential for sustained growth and external funding
- Current or future research topic(s) that is/are aligned with the university strategic plan, *Prosperity Widely Shared*
- Interest or track record in commercialization of research

Indicate how you intend to recruit for this search

Competitive / External - open to ALL qualified applicants

Special Instructions to Applicants

To ensure full consideration, applications must be received by October 1, 2024. Applications will continue to be accepted after the full consideration date until a sufficient applicant pool has been achieved or the position has been filled. The closing date is subject to change without notice to applicants.

When applying, you will be required to attach the following electronic documents:

- 1) A letter of interest indicating how your qualifications and experience have prepared you for this position.
- 2) CV
- 3) The names of at least three professional references with their email addresses and telephone contact numbers listed (upload as 'Professional References' if not included with your vitae). References will only be contacted upon approval by the candidate.
- 4) A two-page statement of research interests.
- 5) A one-page statement of teaching interests.
- 6) A one-page statement outlining how your experience, education, and/or training will help us build a more inclusive, collaborative, and diverse community.

For further information, please contact the search chair, Professor David Kaber (kaberd@oregonstate.edu).

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