

# 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, nine-month tenure-track assistant professor position. This position is expected to establish a research program exploring theory and methods of artificial intelligence (AI) for cognitive systems engineering. Areas of application interest include, but are not limited to:

- Embodied AI/robotics
- AI in healthcare systems
- AI in transportation systems

This position is expected to establish a strong track record of federal and industry funding and partnerships to grow a research enterprise around these areas.

Oregon State offers BS, MS, MEng, and PhD degrees in IE. The program has approximately 105 undergraduate students and 40 graduate students. The College of Engineering has over 170 faculty, and the IE program includes five permanent members along with four instructional faculty. Program research is focused on the future of work with humans and intelligent systems collaborating in large-scale systems. Our faculty develop theories for systems engineering, process improvement, information systems, manufacturing systems, and logistics. Faculty and students also conduct empirical research to analyze new methods for industrial and societal-scale challenges. Our culture is one of collaborative research, cooperation, and individual initiative for advancement of the program.

Candidates should hold a Ph.D. in industrial engineering, human factors engineering, computer science, or other relevant discipline in engineering 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 encouraged to apply. Appointment is anticipated at the Assistant Professor rank.

Applicants should demonstrate a capability and commitment to initiate new extramurally funded research, and to expand, complement, and collaborate with existing research programs in OSU's College of Engineering, and beyond. Applicants must also demonstrate a 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 #P09202UF). Apply online with a letter of interest; vita; a statement of research interests; a statement of teaching interests; and names and contact information for three references.

Review of applications will begin on **October 3, 2025**, and will continue until the position is filled.

The Oregon State College of Engineering is committed to being a national model of inclusivity and collaboration. We strive to develop a community of faculty, students, and staff that is inclusive, collaborative, diverse, and centered on student success. As such, we seek applicants who demonstrate a commitment to diversity and inclusion, including efforts promoting equitable outcomes among learners of diverse and underrepresented identity groups. Further, we seek to broaden our capacity to advance student success across individual identities, racial/ethnic categories, and socioeconomic backgrounds.

### **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:

- PhD in industrial engineering, human factors engineering, computer science, or other relevant discipline in the engineering or mathematical sciences by the start date of employment.
- Demonstrated record of research in cognitive systems engineering.
- Demonstrated potential for, or track record of, securing externally competitive research funding.
- Demonstrated skills or potential to teach undergraduate and/or graduate courses and a commitment to excellence in teaching and student success.
- Ability to communicate industrial engineering/human factors concepts to a technical and general audience.
- Interest in or demonstrated teaching skills and experience in inclusive teaching practices.

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 University Standard: 05-010 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 embodied AI/robotics, AI in healthcare systems and AI in transportation systems engineering

- Demonstrated experience of working in large-scale human-in-the-loop systems and problems.
- Research topic with strong potential for sustained growth and external funding
- Current or future research topic(s) that is/are aligned with OSU's strategic plan, *Prosperity Widely Shared*
- Interest or track record in commercialization of research
- Research program has strong scientific contribution and positive societal impact.

### **Special Instructions to Applicants**

To ensure full consideration, applications must be received by December 3, 2025. Applications will continue to be accepted after the full consideration date until a sufficient applicant pool has been achieved or the position is 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 Curriculum Vitae.
- 2) A Cover Letter indicating how your qualifications and experience have prepared you for this position.
- 3) A Statement of Research.
- 4) A Statement of Teaching.

You will also be required to submit names of at least three professional references, their e-mail addresses and telephone numbers as part of the application process.

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

We are an Equal Opportunity Employer, including disability, protected veteran, and other protected status.

OSU will conduct a review of the National Sex Offender Public website prior to hire.

OSU is a fair-chance employer committed to inclusive hiring. We encourage applications from candidates who bring a wide range of lived experience including involvement with the justice system. This job has "critical or security-sensitive" responsibilities. If you are selected as a finalist, your initial job offer will be contingent upon the results of a job-related pre-employment check (such as a background check, motor vehicle history check, sexual misconduct reference check, etc.). Background check results do not automatically disqualify a candidate. Take a look at our [Background Checks](#) website, including the [for candidates](#) section for more details. If you have questions or concerns about the pre-employment check, please contact OSU's Employee and Labor Relations team at [employee.relations@oregonstate.edu](mailto:employee.relations@oregonstate.edu).

