ASSOCIATE PROFESSOR / PROFESSOR
University of Wisconsin - Milwaukee

Job Title	ASSOCIATE PROFESSOR / PROFESSOR
Department	Engineering & Applied Science
Institution	University of Wisconsin - Milwaukee
	Milwaukee, Wisconsin
Date Posted	Nov. 18, 2024
Application Deadline	01/12/2025
Position Start Date	Available immediately
Job Categories	Associate Professor
Academic Field(s)	Computer/Information Sciences
Apply Online Here	https://apptrkr.com/5808127
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Job Description	

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Position Number:

Introduction (Description of School/College/Dept/Program)

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The College of Engineering & Applied Science (CEAS) and the Connected Systems Institute (CSI) at the University of Wisconsin-Milwaukee (UWM) invite applications for a tenured faculty member to be the Director of Research for CSI, with a start date of August 2025 or earlier. This strategic partnership between CEAS and CSI seeks to strengthen and expand our research leadership in Advanced Manufacturing and Industry 4.0.

The College of Engineering & Applied Science (CEAS) is committed to excellence in scholarly research and teaching across its seven departments: Biomedical, Civil and Environmental, Electrical, Industrial and Manufacturing, Mechanical, Computer Science, and Materials Science. More information about the College can be found at **http://uwm.edu/engineering/**

The Connected Systems Institute (CSI) provides education, research, and programs to develop talent and expertise in Industry 4.0 technologies and applications. CSI is a collaboration among UWM, Rockwell Automation, Microsoft, and other industry and academic partners. With Microsofts recent decision to establish its AI Manufacturing Co-Innovation Lab at UWM, CSI is at the center of a rapidly growing AI manufacturing ecosystem. More information about CSI can be found at:
https://uwm.edu/csi/

Greater Milwaukee is home to 400+ engineering firms and more than 1,300 manufacturing firms with annual receipts of 24 billion dollars. The Milwaukee area (Mount Pleasant, WI) has also been selected as the site for a new $1 billion Microsoft data center, to open in 2026. UWM has a long history of industrial collaboration, innovation, and research with its local partners.

Job Summary

The Director of Research will serve as a key member of the CSI leadership team, responsible for shaping and implementing the Institutes research vision and mission. The successful candidate will collaborate with CEAS faculty, faculty from across campus, and industry partners. They will also work with UWM centers and institutes, build highly performing research teams, and contribute to engineering or computer science curriculum. The role involves actively fostering new collaborations.

The successful candidate will provide leadership and collaborate with CEAS faculty as well as faculty from across the university, conducting independent research and leading interdisciplinary teams in Industry 4.0 research. The candidate will work with UWM centers and institutes, build highly effective research teams consisting of professional staff, post-docs, graduate and undergraduate students. As the CSI Research Director, the candidate will serve as a member of the CSI leadership team, responsible for shaping and implementing the research vision and mission of CSI. The candidate will actively collaborate with current industry partners and cultivate new partnerships. While the primary

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focus is toward research and teaching, as a tenured faculty member in CEAS, the candidate will provide thought leadership around modern curricula related to Industry 4.0, advise students as part of CSI research, and contribute to the broader CEAS community.

Minimum Qualifications

- A doctoral degree in an appropriate Engineering, Computer Science, or closely related science field, and either holding the rank of associate or full professor with tenure or possessing a distinguished record of scholarly achievements sufficient to meet the criteria for tenure at the rank of associate or full professor at UWM.
- A strong record of securing external funding, publishing, mentorship, conducting research, and scholarship appropriate with their rank.

Preferred Qualifications

- A proven research record in Industry 4.0 topics, including but not limited to: AI manufacturing, lights-out manufacturing, robotics, system integration, sensing and control, industrial software engineering and cybersecurity, edge computing, advanced human-machine interface (including AR/VR, haptics, etc.), cyber-physical systems, additive manufacturing, digital twin, real-time and low latency communications including wireless (5G, WiFi6), constrained networking including Single Pair Ethernet, industrial process simulation and emulation, big data analytics, cloud computing, explainable AI, and others.
- Demonstrated administrative and research leadership within a center or institute, including experience in personnel management and budget oversight
- Teaching experience related to Industry 4.0
- Track record of forming and leading cross-disciplinary research teams that include industrial partners
- Experience conducting research in collaboration with industrial partners or stakeholders
- Evidence of the potential to complement and/or strengthen existing CEAS and CSI research programs

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Application Instructions

Interested applicants are required to apply online and provide:

- A cover letter addressing your education and experience as it applies to all minimum and preferred qualifications
- A detailed curriculum vitae
- A document listing the name, position, and contact information (phone & email) of three professional references. Finalists will be expected to submit 3 reference letters.

In instances where the Search and Screen Committee is unable to ascertain from a candidates application materials whether they meet any of the qualifications, they will be evaluated as not meeting such qualifications.

This is a continuous recruitment with an initial review date of 1/13/2025. To ensure consideration, applications must be submitted by 1/12/2025. Applications submitted after 1/12/2025 may not be reviewed. The complete application package must be submitted to: **https://jobs.uwm.edu/postings/39745**

Application Notes: For this position, applicants are required to apply online. UWM will not consider paper, emailed or faxed applications. Additionally, applicants must complete all required fields and attach any required documents. The process is complete when the message "Your application has been submitted" is displayed and you receive a confirmation number.

Application Notes

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Legal Notices

AA/EO Statement

UWM is an AA/EO employer: All applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, sexual orientation, gender identity/expression, disability, or protected veteran status.

Reasonable Accommodations

UWM provides reasonable accommodations to qualified individuals with disabilities who are employees or applicants for employment. Employment opportunities will not be denied because of the need to make reasonable accommodations for a qualified individual with a disability. If you need assistance or accommodation in applying because of a disability, please contact **uwm-jobs@uwm.edu** or 414-229-4463. This job announcement and other material on this site will be made available in alternate formats upon request to an individual with a disability.

Confidentiality of Applicant Materials

UWM is a State agency and subject to Wisconsins Open Records Law. UWM will not, however, reveal the identities of applicants who request confidentiality in writing except as may be required by Wisconsins Open Records law. In certain circumstances, the identities of "final candidates" and/or the identity of the appointed applicant must be revealed upon request.

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CBC and Reference Check Policy

Employment will require a criminal background check. UWM takes the prevention of sexual misconduct seriously. As such, you and your references will be required to answer questions regarding any past findings of sexual violence and sexual harassment or any pending allegations of sexual violence or sexual harassment.

Annual Security and Fire Safety Report (Clery Act)

For the UWM Annual Security and Fire Safety Reports (i.e., Clery Report), which includes statistics about reported crimes and information about campus security policies, see **http://www.cleryact.uwm.edu/**, or call UWMs Dean of Students Office, Student Union 345 at (414) 229-4632 for a paper copy.

Employment Authorization

In compliance with federal law, all persons at the time of their start date will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire.

To apply, please visit: https://jobs.uwm.edu/postings/39745

Contact Information

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Contact

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