

## **Professor in Mechanical and Aerospace Engineering and Director for Center for Advanced Semiconductor Manufacturing (CASM) at Syracuse University**

### **Job Description**

The Department of Mechanical and Aerospace Engineering (MAE) at Syracuse University invites applications for the position of Professor and Director of the Center for Advanced Semiconductor Manufacturing (CASM), starting in Fall 2025. CASM is an interdisciplinary center that will bring together expertise in artificial intelligence (AI), cybersecurity, manufacturing processes, optimization and robotics to advance the science of semiconductor manufacturing. The center is funded by a \$20 million investment from Syracuse University and Onondaga County. CASM will be a centerpiece of an investment over \$150 million that strategically transforms STEM and expands the College of Engineering and Computer Science (ECS) at Syracuse University by 50%. Prospective candidates should possess a proven track record in the broader realm of Advanced Manufacturing, with an ability to develop a nationally and internationally recognized and externally funded research program. The department is particularly interested in individuals engaged in both fundamental and applied research within the expansive domain of advanced manufacturing. Potential research areas encompass, but are not confined to, advanced manufacturing processes and systems, advanced semiconductor manufacturing, automation in manufacturing, digital twins in manufacturing, advanced modeling and simulation, and applications of artificial intelligence and machine learning in manufacturing. The chosen candidate will also be expected to address instructional requirements in the fields of manufacturing and mechanical engineering, spanning both undergraduate and graduate levels.

### **Qualifications**

Candidates should have a Ph.D. degree in a relevant area of Mechanical Engineering or a closely related field. Candidates should currently hold the rank of full professor or have qualifications to be promoted to full professor.

### **Job Specific Qualifications**

Preference will be given to candidates who have the potential to make significant contributions to one or more research focus areas within the department and college (<https://ecs.syracuse.edu/research>).

For full consideration, applicants must complete an online application at <https://www.sujobopps.com> and attach the application file to job number 077991. Required application materials consist of: 1) cover letter; 2) detailed resume or curriculum vitae; 3) a statement of teaching interests; 4) a statement of research interests; 5) a statement of diversity and inclusion; and 6) names and contact information of three references. The initial screening of applications will begin on **December 1, 2024**. Applications will be accepted until the position is filled. For information about the department, please visit <http://eng-cs.syr.edu/our-departments/mechanical-and-aerospace-engineering/>.

*Syracuse University is an equal opportunity/affirmative action employer with a strong commitment to equality of opportunity and a diverse work force. Members of groups traditionally underrepresented in higher education broadly, and in engineering, specifically, are strongly encouraged to apply.*