



## **Assistant Professor in Mechanical Engineering**

The Department of Mechanical Engineering at the University of Maine invites applications for a full-time, tenure-track Assistant Professor position with an anticipated start date of January 2023 or earlier.

### *Required Qualifications:*

- A Ph.D. in aerospace engineering, mechanical engineering, ocean engineering, or a closely related field by date of hire.
- A well-documented record of high-quality research in fluid mechanics, specifically in CFD and numerical modeling of internal and/or external flow fields.
- Evidence of a strong potential for obtaining extramural funding and supporting graduate students.
- Evidence of a strong potential for teaching excellence, and capability to develop and teach fluid mechanics and CFD courses at the undergraduate and graduate levels.
- Excellent communication skills and teamwork ability.
- A commitment to diversity, equity, and inclusion in education, research, and service.

### *Preferred Qualifications:*

- Potential for collaboration in one or more areas including aerospace, mechanical, ocean, energy and biomedical engineering.
- Experience in experimental fluid mechanics is desirable as a complement to numerical modelling expertise.
- Industrial experience in fluid mechanics is desirable.

This is a 50% teaching, 50% research position in mechanical engineering and requires active engagement in service to the University, the State, and the profession. The successful candidate will be expected to lead an externally-funded research program, develop and teach undergraduate and graduate courses, advise and mentor students, publish and present scholarly works, participate in service activities, and demonstrate commitment to diversity, equity and inclusion. We highly encourage and welcome applications from all genders and members of historically underrepresented groups.

### **About the University, Department, and Research Center:**

The University of Maine is a comprehensive land and sea grant university with an enrollment of over 12,000 students and research expenditures exceeding \$179 million per year. UMaine is the flagship university in the University of Maine System, and is consistently ranked among the top third of public universities engaged in research through the NSF Higher Education Research and Development Survey, and it is classified as an R1 - Higher Research Activity Institution by Carnegie.

As a former NSF ADVANCE institution, UMaine is committed to diversity in our workforce and to dual-career couples. It is our intention to create an environment that is inclusive of all individuals.

Therefore, UMaine aspires to become a more diverse community in order to extend its enriching benefits to all participants. An essential feature of our community is an environment that supports exploration, learning, and work free from bias and harassment, thereby improving the growth and development of each member of the community.

The Department of Mechanical Engineering has an ABET accredited BS program with an undergraduate enrollment of nearly 500 students, the largest in the University of Maine System. The Department's MS and PhD degree programs have a graduate enrollment of over 60 students, the largest in the College of Engineering. In addition to the undergraduate concentration in Aerospace, the Department offers graduate concentrations in Aerospace, Offshore Wind Energy, Robotics & Mechantronics, and Smart Manufacturing. Faculty also teach courses that support interdisciplinary minors in several areas including Robotics and Renewable Energy Engineering, as well as a certificate in Composite Materials and Structures. The faculty are very active in research and scholarly pursuits with over \$6M in new awards, including three NSF CAREER awards, in FY22. Starting in Fall 2022, the Department will be housed in the brand-new Ferland Engineering Education and Design Center, a 115,000 sf, \$78-million state-of-the-art teaching and laboratory facility on the UMaine campus in Orono.

The faculty in mechanical engineering have active collaborations with a number of research centers, including Advanced Structures and Composites Center, Frontier Institute for Research in Sensor Technology, Climate Change Institute, and Advanced Manufacturing Center.

The University of Maine's Alford Wind-Wave Ocean Engineering Laboratory is a unique wind-wave simulation basin featuring a rotatable high-performance wind machine over a multidirectional wave basin. This facility is part of the 100,000 sf, \$100-million Advanced Structures and Composites Center. UMaine is a world leader in floating offshore wind turbine technology development. In 2013, the University designed, constructed and deployed the first grid-connected floating offshore wind turbine in the US, and is now leading US efforts to deploy a 10-12 MW floating turbine 14 miles off the coast of Maine, funded in part by a \$40-million grant from the US Department of Energy as well as \$100-million in private investment. With the US offshore wind mega-projects recently awarded in the Northeast, the growing US offshore wind industry will require world-class mechanical engineering graduates.

The University of Maine offers a [wide range of benefits](#) for employees including, but not limited to, tuition benefits (employee and dependent), comprehensive insurance coverage including medical, dental, vision, life insurance, and short and long term disability as well as retirement plan options. As a former NSF ADVANCE institution, the University of Maine is committed to diversity in our workforce and to dual-career couples.

UMaine is located in beautiful Central Maine. Many employees report that a primary reason for choosing to come to UMaine is quality of life. Numerous cultural activities, excellent public schools, safe neighborhoods, high quality medical care, little traffic, and a reasonable cost of living make the greater Bangor area a wonderful place to live.

Learn more about what the Bangor region has to offer [here](#).

**For more information and to apply for this position, go to <https://umaine.hiretouch.com/job-details?jobid=76993>**

Applicants should submit (1) cover letter which describes your experience, interests, and suitability for the position, (2) resume/curriculum vitae, (3) teaching philosophy, (4) research statement, and (5) contact information for three professional references, including postal and email addresses and phone numbers. Review of applications will begin on August 1, 2022 and will continue until the position is filled.

**The University of Maine is an EEO/AA employer, and does not discriminate on the grounds of race, color, religion, sex, sexual orientation, transgender status, gender expression, national origin, citizenship status, age, disability, genetic information or veteran's status in employment, education, and all other programs and activities. The following person has been designated to handle inquiries regarding non-discrimination policies: Amie Parker, Interim Director of Equal Opportunity, 101 North Stevens Hall, University of Maine, Orono, ME 04469-5754, 207.581.1226, TTY 711 (Maine Relay System).**