



Department of Mechanical Engineering
Presidential Professor in Ocean Engineering and Energy

The Department of Mechanical Engineering at the University of Maine invites applications for the Presidential Professor in Ocean Engineering and Energy. Applicants must have a Ph.D. in mechanical engineering, ocean engineering, naval architecture, or a closely related field. This full-time, tenure-track position is expected to be filled as early as January 2019 at the academic rank of associate or full professor depending on qualifications. Initial appointment to the presidential professorship is for five years with reappointment contingent upon performance. Candidates with outstanding credentials commensurate with appointment at the rank of full professor with tenure are encouraged to apply as are candidates with significant industrial experience.

Candidates applying for this position must be research leaders with an established portfolio that includes a strong record of funding and scholarly publications, and evidence of or potential for teaching excellence. They must also demonstrate an ability to secure and direct large research projects focused on emerging offshore energy and other ocean technologies while leading a team of graduate students and early to mid-career engineers and scientists.

Desired areas of expertise include: design, modeling, and / or testing of floating structures in the ocean environment, fluid-structure interaction modeling, coupled aeroelastic-hydrodynamic simulation, and basin physical testing of floating structures subject to wind and / or wave conditions.

The successful candidate will be expected to lead externally funded research program in association with Alford Wind-Wave Ocean Engineering Laboratory, develop and teach courses in mechanical or ocean engineering, advise and mentor students, and participate in other related activities.

The University of Maine is a comprehensive land and sea grant university with an enrollment of more than 11,000 students and research expenditures of nearly \$100 million per year. UMaine 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 a Higher Research Activity Institution by Carnegie.

The College of Engineering has five departments. The Department of Mechanical Engineering has an ABET accredited BS program with an undergraduate enrollment of about 400 students. The graduate program offers both MS and PhD degrees, and enrolls over 40 students. The Department also offers a concentration in Aerospace Engineering, while faculty offer courses which support interdisciplinary minors in Marine Engineering, Renewable Energy Engineering, and Robotics.

The University of Maine's Alford Wind-Wave Ocean Engineering Laboratory is a unique wind-wave simulation basin which features 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 two 6

MW floating turbines 14 miles off the coast of Maine, funded in part by a \$40-million grant from the US Department of Energy. With US offshore wind mega-projects recently awarded in the Northeast (800 MW in Massachusetts, 400 MW in Rhode Island, and 3,500 MW in New Jersey by 2030), the growing US offshore wind industry will require world-class mechanical engineering graduates.

For more information and to apply for this position, visit <https://umaine.hiretouch.com>. Applicants should submit a cover letter, curriculum vitae, teaching philosophy, research statement, and a list of at least three references, including postal and email addresses and phone numbers. Review of applications will begin on October 15, 2018 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.