



Postdoctoral Scholar in Ocean Engineering, Materials Science, or Fluid Mechanics

College of Engineering and Physical Sciences

Department: Mechanical Engineering

Description: The Department of Mechanical Engineering is interested in a creative Postdoctoral Scholar who can make fundamental contributions to one or more of the following broad research areas: Ocean Engineering, Materials Science, or Fluid Mechanics. The Postdoctoral Scholar will conduct their own research and work closely with a senior faculty mentor to develop an independent research program. The Scholar will build on current strengths in the Department in these areas, have access to state-of-the-art laboratory facilities, and opportunities to engage in interdisciplinary collaborations across campus.

Additional professional development support will be provided in the form of participation in faculty development academies with early career tenure track faculty, coaching by senior faculty colleagues, workshops on teaching and learning, graduate student advising, involvement in department activities, and support funds. The Scholar will also attend workshops on grant writing and the development of a long-range research plan that is funded by the NSF, DoD, DOE, NOAA, or other organizations. Responsibilities will include teaching one course annually.

We encourage a breadth of applications across the broad research areas of Ocean Engineering, Materials Science, or Fluid Mechanics. The specific focus areas may include:

- 1. Ocean Engineering:** marine robotics, ocean simulations, marine structures, coastal processes, ocean sensing, marine geotechnics, ocean renewable energy, ocean acoustics.
- 2. Material Science:** Integrated Computational Materials Engineering, Materials modeling, Metallurgy, Materials development for additive manufacturing, Advanced characterization of materials
- 3. Fluid Dynamics:** high-fidelity scientific computing, dynamical systems/reduced-order modeling, flow diagnostics, turbulence, environmental and complex flows, thermal and energy science.

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