

Post Doctorate/Research Associate, Mechanical Engineering Program Atmosphere-ocean Fluid Mechanics and Turbulent Boundary Layer

The Micro Scale Thermo Fluids (MSTF) Laboratory in the Mechanical Engineering Program at Texas A&M University at Qatar (TAMUQ) invites applications for two post doctorate positions in the study of atmosphere-ocean turbulent boundary layer dynamics, wind-induced wave generation and near-shore wave and sediment dynamics. These are full-time position; the initial appointment will be for one year but can be extended up to three years. TAMUQ is a branch campus of Texas A&M University in College Station, Texas.

The research includes conducting experiments in the coastal region of Qatar to study atmospheric boundary layer characteristics, nearshore ocean wave dynamics and sediment dynamics/morphology. We are looking for self-motivated individuals who have extensive experimental experience in fluid mechanics and coastal engineering. The successful candidate will work under the supervision of a TAMUQ faculty member for conducting experimental research and interacting with academia and industry. In addition to traditional in-situ equipment, the candidate should be comfortable with operating -high speed cameras, sonic anemometers and data acquisition systems.

The successful candidate will be responsible for designing, preparing and constructing appropriate experimental setups and tending to all aspects of the daily operation. Publishing in scientific conferences and journals are strongly encouraged. Minimum education requirement is a PhD degree in Mechanical Engineering, or a closely related field. Special consideration will be given to candidates who have expertise with field instrumentation in the near-shore (in-situ measurements, remote imaging from video, anemometry, etc.). Experience with computer programming, image processing methods and data processing algorithms is preferable. Highly qualified candidates with Masters Degree may be considered.

Texas A&M University at Qatar offers a very competitive salary (TAX free) and excellent benefits. The benefit package includes furnished housing and utilities at no cost, group health insurance, local transportation, travel, and dependent education allowance.

Interested candidates are encouraged to send a complete application package (in pdf format), including curriculum vita, a cover letter describing research interests and goals, selected publications, and the names and email addresses of three references, to: Dr. Reza Sadr: reza.sadr@qatar.tamu.edu.