

Post Doctorate/Research Associate, Mechanical Engineering Program Micro- Bio-Fluid Mechanics

The Micro Scale Thermo Fluids (MSTF) Laboratory in the Mechanical Engineering Program at Texas A&M University at Qatar (TAMUQ) invites applications for post doctorate positions in the field of Micro- bio-Fluid Mechanics. This is a full-time positions; the initial appointment will be for one year that can be extended up to three years. TAMUQ is a branch campus of Texas A&M University in College Station, Texas.

Micro fluidic research includes setting up and conducting experiments to develop computational fluid modeling and visualization techniques for the design of novel microfluidic sensing platform for microbial electrolysis cells (MEC). 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.

We are looking for self-motivated individuals who have extensive experimental experience in micro-fluidics or bio-fluidics. The successful candidate will work under the supervision of a faculty for conducting experimental research and interacting with academia and industry. In addition to traditional laboratory equipment, the candidate should be comfortable in operating data acquisition, optical microscope, high speed camera, and laser systems. Knowledge of advanced velocimetry, such as PIV, LDV and LIF is desired.

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 in the experimental fluid mechanics with research experience at micro scale and supercritical flow studies. Experience with computer programming and data processing algorithms is preferable. Highly qualified candidate with Masters Degree may be considered.

Texas A&M University at Qatar offers a competitive salary (TAX free) and excellent benefits. The benefit package includes furnished housing 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.