Post-Doctoral Research Associate Position in Experimental Turbulent Combustion

at

Turbulent Combustion and Spray Research Laboratory
Department of Aerospace Engineering
Indian Institute of Science, Bangalore

The selected candidate for the research associate position would focus on understanding different aspects of turbulent flow-spray-flame interactions in realistic aero-propulsion engine configurations using optical diagnostics and physical probes. Responsibilities include but are not limited to conducting and supervising experiments in high temperature, high flow rate systems, setting up diagnostics, perform data analysis and interpretation, preparing yearly project reports and related academic documents. The candidate is expected to work with a team of bright graduate students and project staff in a vibrant research group.

Required Qualifications:
- Ph. D in Aerospace / Mechanical Engineering or related areas.
- Strong foundations in fluid mechanics, combustion, gas dynamics.
- Experience in performing combustion experiments using laser based diagnostics like PIV, PLIF, PDI or experience with high pressure, high flow rate systems.
- Experience in handling data acquisition systems.
- Fluency in oral and written English.

Desired Qualification:
- Data analysis in Matlab.
- Basic CFD knowledge for performing reacting and nonreacting flow simulations in commercial CFD codes.

Salary: According to the Department of Science and Technology, India norms.

How to Apply: Interested candidates are requested to email their complete CV containing publication records and contact details (email and phone number) of two references to Dr. Swetaprovo Chaudhuri: schaudhuri(at)iisc.ac.in or swetaprovo(at)gmail.com.