

Post-Doctoral Associate – Energy Systems and Aerospace Propulsion

Division of Engineering

NYU Abu Dhabi

The Energy and Propulsion Laboratory (tentative) in the Division of Engineering, New York University Abu Dhabi, seeks to recruit multiple postdoctoral associates to work on the energy systems and aerospace propulsion.

The successful applicant will drive a fascinating project on the emerging technologies for energy/propulsion systems. Responsibilities will include but not limited to fundamental studies of reactive flow, chemical kinetics, combustion, and detonation, for a wide range of energy/propulsion applications including gas turbine and internal combustion engines for unmanned aircraft systems (UAS), sustainable aviation fuels for urban air mobility (UAM), detonation engines for rocket/hypersonic propulsion, and nuclear thermal space propulsion. The candidate will work in a multidisciplinary environment consisting of PhD-level scientists, graduate students and undergraduate students.

Applicants must have a PhD in Mechanical Engineering, Aerospace Engineering, or related field. At least one of the following skills is required.

- Excellent reacting flow multi-physics computation experience in high-performance computing (HPC) environment with new techniques such as machine learning (ML), artificial intelligence (AI), or data-driven modeling
- Excellent experimental experience in reacting flow, combustion, or propulsion facility with diagnostic techniques.

The terms of employment are very competitive and include housing and educational subsidies for children. Applications will be accepted immediately and candidates will be considered until the position is filled. For consideration, applicants need to submit a cover letter, curriculum vitae with full publication list, transcript of degree, research statement (research statement to be limited to a one-page summary of research accomplishments and interests), and contact information of three references, all in PDF format. If you have any questions, please email Dr. Je Ir Ryu at jryu@nyu.edu.

Apply online at: <https://apply.interfolio.com/107153>

About NYUAD:

NYU Abu Dhabi is a degree-granting research university with a fully integrated liberal arts and science undergraduate program in the Arts, Sciences, Social Sciences, Humanities, and Engineering. NYU Abu Dhabi, NYU New York, and NYU Shanghai, form the backbone of NYU's global network university, an interconnected network of portal campuses and academic centers across six continents that enable seamless international mobility of students and faculty in their pursuit of academic and scholarly activity. This global university represents a transformative shift in higher education, one in which the intellectual and creative endeavors of academia are shaped and examined through an international and multicultural perspective. As a major intellectual hub at the crossroads of the Arab world, NYUAD serves as a center for scholarly thought, advanced research, knowledge creation, and sharing, through its academic, research, and creative activities.