

Fully Funded PhD Position in Computational Solid Mechanics– Dr. Mostafa Mobasher’s Lab

Division of Engineering

NYU Abu Dhabi

The Computational Solid Mechanics (CSM) at New York University Abu Dhabi has several open PhD positions for Fall 2021. In collaboration with the New York University Tandon School of Engineering, the Engineering Division at New York University Abu Dhabi offers Global PhD Student Fellowships ([CE link](#), [ME link](#)). Applicants to this position may submit their applications and be registered in either the [Mechanical and Aerospace Engineering Department](#) or the [Civil and Urban Engineering Department](#) at NYU.

Applications are due by December 1, 2020. The Global PhD Program currently offers admission for the Fall semester 2021. GRE requirements can be waived this year due to the COVID-19 restrictions. Interested applicants are encouraged to send their CV, research statement and list of publications (if any) to Mostafa.Mobasher@nyu.edu , and submit their application through the [application portal](#).

About CSM at NYUAD:

The CSM research is focused on advancing the mechanics theory and numerical algorithms to better predict the time-dependent, nonlinear, multiscale and fracture behavior of manmade and natural materials; including: concrete, steel, polymers, ice, rock and biomaterials. This is achieved through the development of constitutive material modeling and numerical algorithms/methods suited to represent different types of materials and phenomena.

Required Qualifications:

- M.S. in Civil, Mechanical, or Aerospace Engineering, or related field, with demonstrated experience in computational mechanics
- Proficiency in programming using Python, Fortran, C/C++, or other
- Excellent written and communication skills

Preferred Qualifications:

- Background and experience in data science and machine learning
- Background in high performance or parallel computing

Key Features of the Fellowship:

- New York University degree upon graduation
- Access to the extraordinary resources of the NYU Tandon School of Engineering
- Graduate coursework in New York
- Cutting-edge research opportunities in NYU Abu Dhabi’s labs
- Tuition, fees, and health insurance provided throughout the program
- Generous research assistantship and stipend provided by NYU Abu Dhabi throughout the program
- Assistance for degree-related travel between Abu Dhabi and New York
- Campus accommodation at no cost in Abu Dhabi
- A contribution toward accommodation costs in New York
- Career development assistance at both campuses

جامعة نيويورك أبوظبي



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.