

## **Postdoctoral Position Available in United Arab Emirates within the Advanced Digital & Additive Manufacturing (ADAM) Center**

A Postdoctoral Research Fellow position is available immediately in the Advance Digital and Additive Manufacturing (ADAM) Center at the Khalifa University of Science and Technology in Abu Dhabi in United Arab Emirates. The research project focuses on design for additive manufacturing (DfAM) with special emphasize on topology-optimization and generative design of multi-functional materials, composites, and structural systems. Applicants who has experience in development of topology-optimization algorithms for optimizing several functionalities (e.g., mechanical, thermal, electrical, acoustic, magnetic, photonic, etc) are encouraged to apply. The ideal candidate must have a PhD in a relevant discipline (Engineering Mechanics, Mechanical Engineering, Aerospace Engineering, Materials Science and Engineering, or other relevant Engineering discipline), and an established track record evident by publications in top quality journals.

### **About Khalifa University:**

The newly-established Khalifa University of Science and Technology combines The Masdar Institute of Science and Technology, Khalifa University of Science, Technology and Research and The Petroleum Institute into one world-class, research-intensive institution, seamlessly integrating research and education to produce world leaders and critical thinkers in applied science and engineering. Khalifa University endeavors to be a leader among research intensive universities of the 21st century, while catalyzing the growth of Abu Dhabi and the UAE's rapidly developing knowledge economy.

Khalifa University ranked 1st in Middle East and 15th in Emerging Economies in latest Times Higher Education Rankings. The subject rankings in 'Engineering and Technology', second in the 2018 The Arab World University Rankings, and 32nd out of 359 Asian universities in the 2018 THE Asia University Rankings.

### **About Advanced Digital & Additive Manufacturing (ADAM) Center:**

The ADAM center serves as an R&D and educational facility in the area of additive manufacturing (AM), commonly-known as 3D printing, and it is a platform to provide support to industries across the UAE to be at the forefront of the fourth industrial revolution. ADAM is the first R&D center in UAE focusing on 3D printing. The center includes research and educational activities that cover the full spectrum of AM including digital design through topology-optimization, understanding and optimizing 3D printing processes for enhanced properties of printed parts and performance, development of materials (filaments, resins, powder) for AM, and utilizing AM as a manufacturing technique for fabricating architected metamaterials and lightweight structural systems that could not be achieved through conventional manufacturing techniques.

### **Package:**

The position will offer a **very competitive** salary package (tax-free) including housing allowance, relocation and repatriation tickets to home country, and health insurance. The position will be for an initial duration of 12 months (or up to 3 years depending on the candidate background) and extendable depending on performance.

**Application submittal information:**

Only applications providing all application requirements will be further considered. These requirements should be numbered and attached to the application following this order:

- applicant name and contact information,
- a curriculum vitae including list of publications, awards, with potential start date,
- Short statement of previous work and a description of your vision and your research plan on that field (no more than one A4 page – but should be very high quality). It should clearly highlight a vision of the candidate in the field, a prior understanding of the related literature and the definition of key steps towards innovative results in the field. [This document will be a key element for the decision process towards recruitment.](#)
- Slides from a recent presentation in a conference or seminar
- e-mail and contact information for at least two references.

Materials must be submitted electronically to **Dr. Kamran A Khan** ([kamran.khan@ku.ac.ae](mailto:kamran.khan@ku.ac.ae)) specifying in the **e-mail subject** “**Postdoctoral-Topology Optimization**”. Review of applications will begin immediately and continue until the position is filled. The candidate is expected to start at the earliest possible date. While we thank all applicants for their interest, only those under consideration will be contacted for a follow-up interview.