



In collaboration with



## **Post-Doctoral Research Fellow: Transforming Material Architecture (ME-PDSK012013)**

### **Mechanical Engineering (ME)**

Applications are invited for the position of “Post-doctoral Research Fellow” as part of a joint research project between Masdar Institute of Science & Technology and Massachusetts Institute of Technology (MIT). Successful candidate will work on a collaborative interdisciplinary research project. The project aims at developing dynamically transformative hybrid materials. The Research Fellow will work on analytical and computational modeling, prototyping using 3D printing and experimental evaluation. The fellow will be mainly based at the Masdar Institute campus in Abu Dhabi, but will also have opportunities to visit MIT so as to work/interact with the MIT team.

### **About Masdar Institute:**

Masdar Institute ([www.masdar.ac.ae](http://www.masdar.ac.ae)) is the world's first graduate-level university dedicated to providing real-world solutions to issues of sustainability. The Institute's goal is to become a world-class research-driven graduate-level university, focusing on advanced energy and sustainable technologies. The Institute, which was created in collaboration with the **Massachusetts Institute of Technology (MIT)**, integrates theory and practice to incubate a culture of innovation and entrepreneurship, working to develop the critical thinkers and leaders of tomorrow. Masdar Institute is situated in Masdar City ([www.masdar.ae](http://www.masdar.ae)), an emerging global clean-technology cluster that aims to be one of the world's most sustainable urban developments, powered by renewable energy and providing students and researchers with a unique opportunity to live and learn in a true "living laboratory" environment.

### **Requirements:**

The ideal candidate will have a PhD in a relevant discipline (Engineering or Applied Mathematics), and established track record evident by publication in top quality journals. Expertise in one or more of the following areas is a must: analytical/computational solid mechanics, micro- and nano-composites, experimental mechanics, multi-scale modeling, biomimetics, and/or soft mater.

### **Package:**

The position will offer a **very competitive** salary package (tax-free). The position will be for an initial duration of 12 months, extendable (up to 2 or 3 years) depending on funding and performance.

**Application submittal information:**

Application materials should include:

- a curriculum vitae,
- an application letter describing the applicant's current position and how his/her experience matches the position requirements,
- and e-mail contact information for at least three references.

Materials must be submitted electronically to Dr. S Kumar ([skumaar@mit.edu](mailto:skumaar@mit.edu) ; [s.kumar@eng.oxon.org](mailto:s.kumar@eng.oxon.org); [kshanmugam@masdar.ac.ae](mailto:kshanmugam@masdar.ac.ae)) specifying the Program Code ME-PDSK012013. 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.