



In collaboration with



## **Postdoctoral Position Available at Masdar Institute in Abu Dhabi: Nanocomposite and Nanostructured Materials**

A Postdoctoral Research Fellow position is available immediately at the SMART MASDAR Laboratory (Smart Materials for Advanced and Revolutionary Technologies) at Masdar Institute of Science and Technology in Abu Dhabi in United Arab Emirates. Masdar Institute is established in collaboration with Massachusetts Institute of Technology. The research project focuses on microstructural-based simulations and experimental fabrication and characterization of micro- and nano-composite materials (e.g., metals with dispersed micro and nano inclusions, polymers with nano-filaments such as carbon nanotubes and nanofibers, nanostructured metals). Those with a background in computational micro- and nano-mechanics, material constitutive modeling, or fabrication and characterization of advanced materials are encouraged to apply.

### **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 an established track record evident by publication in top quality journals. Expertise in one or more of the following areas is a must: theoretical/computational solid mechanics; micro- and nano-composites; micro- and nano-structured materials, fabrication and characterization of advanced materials, and experimental mechanics.

### **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:

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

Materials must be submitted electronically to Dr. Abu Al-Rub ([rabualrub@masdar.ac.ae](mailto:rabualrub@masdar.ac.ae)) specifying in the e-mail subject "Postdoctoral-Nanocomposites". 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.