



Position Available:

Post Doctoral Fellow

- Accepting applications until position is filled –

Job description

A postdoctoral position is available in the *Composite and Heterogeneous Materials Modeling and Simulation Laboratory* (COHMAS) at King Abdullah University of Science and Technology (KAUST).

The successful candidate will be engaged in modeling and simulation of degradation in composite materials. Candidates with experience in one or more of the following research areas are encouraged to apply:

- (1) Modeling of damage and fracture, non-linear computational mechanics
- (2) Multiscale modeling of materials (homogenization, variational multiscale approaches, relocalisation techniques)
- (3) Large scale computing and software design
- (4) Carbon fiber reinforced polymers, CNT reinforced polymers, metal based composites.

Qualifications

A successful candidate must have a Ph.D. in the field of computational solid mechanics with experience in one or more of the aforementioned areas of research. Programming experience on a UNIX platform is a must. Other related areas of research will be considered.

Appointment, salary and benefits

Appointment period: One year, renewable annually for two years.

Salary: \$50,000 - \$75,000. No tax paid to the Kingdom of Saudi Arabia.

Other benefits: Free housing, medical, dental, air transportation to KAUST, one round-trip airline ticket per year to visit home country.

Contacts, application material and deadlines:

Interested applicants should send a detailed C.V. with at least three professional references to

Professor Gilles Lubineau at gilles.lubineau@kaust.edu.sa

www.cohmas.org

The position will remain open until filled, but the candidate is expected to join the team as soon as possible. The CV should include at least: Professional experiences, Academic training, Publications, computational skills and experiences, architectures, Foreign languages.

About KAUST (<http://www.kaust.edu.sa/>)

King Abdullah University of Science and Technology (KAUST) is an international, graduate-level research university located on the Red Sea in the Kingdom of Saudi Arabia. Dedicated to inspiring a new age of scientific achievement that will benefit the region and the world, KAUST will exemplify the future of world-class research. It is the vibrant home to an international community of students, faculty and staff, researchers, and families, situated in a unique Red Sea coastal location near Thuwal, 80 kilometers (50 miles) north of Jeddah – Saudi Arabia's second largest city. The total area of the self-contained community spans more than 36 million square meters, including a unique coral reef ecosystem that the University will preserve as a marine sanctuary. At opening, KAUST will house the Shaheen Supercomputer, a 16-rack IBM Blue Gene/P System, equipped with 4 gigabytes of memory per node and capable of 222 teraflops — or 222 trillion floating-point-operations — per second, making KAUST's campus in Thuwal the site of one of the world's fastest supercomputers. KAUST will also be connected directly into the worldwide research networks, running 10 Gbps directly to networks such as Internet2 & GEANT2. The infrastructure is designed with future IT requirements and developments in mind, including installation of 100,000 Ethernet ports and 500 kilometers of cables, with abundant dark fiber ready to be activated when needed. More details are available at <http://www.kaust.edu.sa/>