
Postdoctoral Fellow in Computational Engineering

Job Details:

A full-time postdoctoral fellow position is immediately available for a highly motivated individual to join the research group of Prof. Roland Bouffanais at the Singapore University of Technology and Design (SUTD). The candidate should have a strong interest and sound expertise in theoretical and computational engineering in connection with some of the following fields: complexity science and complex systems engineering, engineering control and design, collective/swarm intelligence, biomimicry.

We are seeking to hire a postdoctoral researcher to perform research in a project on real-time distributed control and design in complex systems using collective intelligence. More specifically, the selected candidate will develop and implement models and algorithms based on concepts borrowed from the probability collectives theory and model reduction methods. The successful applicant will join the Singapore–MIT International Design Center and will extensively interact and collaborate with MIT Faculty members.

Qualifications:

- Successful candidates should have received a Ph.D. degree in engineering, theoretical and computational physical/mathematical sciences or related disciplines. This can include degrees in mechanical or electrical engineering, applied mathematics and physics, computational science.
- Research expertise in complexity science and collective/swarm intelligence will be considered as a plus.
- Ability to work both independently and in a team environment, and to take ownership of, and autonomously carry forward, major aspects of a research project.
- Excellent verbal and written communication skills

Duration & Location:

2 years, extendable @ the Singapore – MIT International Design Center and SUTD.

Benefits:

At SUTD you will receive many benefits as an employee of the newly established Singapore's fourth autonomous university established in collaboration with MIT. In our package you will enjoy competitive pay, good benefits, a stimulating, positive environment and learning opportunities that will help build your career.

Application:

Please submit electronically the following documents to Roland Bouffanais: CV including a publication list and the contact information of 3 references (address, phone, and email) and a brief statement of interest.