

Postdoctoral Fellow in Computational Bioengineering

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: low-Reynolds number hydrodynamics, numerical simulation and modeling, self-organization of biological systems, mechanosensory systems at the cell level, chemotaxis, cell/amoeboid swimming.

We are seeking to hire a postdoctoral researcher to perform research in a project involving modeling of self-organization of crawling cells. More specifically, the selected candidate will join our team comprising an experimentalist to develop and implement models of mechanosensation at the cellular level. Those models are meant to validate our theoretical assumptions against experimental measurements gathered within our group. The successful applicant will also take part to our strong ongoing collaboration with an MIT group.

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 engineering, applied mathematics and physics, computational science.
- Research expertise in complexity science and self organization of living systems 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:

1.5 years, potentially extendable @ SUTD.

Benefits:

At SUTD you will receive many benefits as a valued employee of the newly established Singapore's fourth autonomous university established in collaboration with MIT. In our total rewards 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.