



The Institute of High Performance Computing (IHPC) was established in April 1998 to provide leadership in high performance computing as a strategic resource for scientific inquiry and industry development. As a member institute of Singapore's Agency for Science, Technology and Research (A*STAR), our mission is to advance science and technology, and develop leading edge applications through high performance computing and computational science.

We are seeking highly motivated individuals capable of working independently yet cohesively as a team in the pursuit of scientific work with high demands on technical flair and a knack for innovative solutions to various problems. The successful candidate will join an enthusiastic and collaborative bioinformatics team in an excellent scientific environment. Strong candidates will enjoy opportunities in leading the development of specific capability areas. If you share our interests in solving challenging scientific problems using data analytics methods, mathematics and engineering techniques, we welcome you to apply for the following positions:

BIOINFORMATICS GROUP AT SOCIAL AND COGNITIVE COMPUTING DEPARTMENT

Research Scientists/Postdocs/Senior Scientists

We seek researchers with talents and inclination to pursue first class research and are keen to work on multi-disciplinary research topics. Specifically, successful candidates will be responsible for developing data warehouses and computational algorithms to facilitate the understanding of ageing process. He/she is expected to explore the use of data mining methods and pattern recognition techniques to identify biological signatures and pathways associated with healthy ageing, longevity and age-related conditions driven extensively by experimental and empirical data. Successful candidates will be given opportunities to work closely with distinguished collaborators at both local and international research institutions and universities. Also, they will be interacting closely with various organisations to determine state-of-the-art models, and as a team, develop solutions to meet possible industry applications.

Relevant areas of research include but are not limited to:

- Data analysis, optimisation and visualisation
- Data acquisition and management
- Protein-protein interaction network modeling and analysis
- Algorithms for biomarker discovery
- Molecular modelling methods and substructure search algorithms

Requirements

- A PhD degree in Bioinformatics / Computer Science / Computer Engineering / Mathematics or equivalent
- Knowledge & programming experience in any of the programming languages C#, C++, Java (or evidence of ability to learn new programming languages)
- Good publication record/patents would be an advantage
- Knowledge and experience in computational biology, bio-informatics, systems biology would be an advantage
- Knowledge in database design and development would be an advantage
- Knowledge and experience in handling multi-variable and large scale datasets would be an advantage

Contact

Dr. Victor TONG Joo Chuan
Director, Social & Cognitive Computing Department, IHPC
E: tongjc@ihpc.a-star.edu.sg
T: +65 6419 1570