Fujitsu-SMU Urban Computing and Engineering Corporate Lab
Singapore Management University (SMU)
Openings for PhD Scholarships

Funded by the National Research Foundation and Fujitsu Ltd, the Fujitsu-SMU Urban Computing and Engineering Corporate Lab (Corp Lab) is housed in the Singapore Management University. It is an integral part of the Urban Computing and Engineering Centre of Excellence – a collaboration between A*STAR, Fujitsu and SMU. The Corp Lab is a synergistic industry-university partnership aimed at conducting industry-relevant R&D on combining human behavior and management approaches with computational capability to create intelligent systems for urban dynamics and decisions.

Central to our approach is real-time or near-real-time data-driven simulation and optimization that deeply incorporate theories and models from behavioral economics, utilizing high-performance computation that pushes the boundary of state-of-the-art methods in Artificial Intelligence and Operations Research. Through real-world field test-bedding, we will create and experimentally validate our approach to dynamically match transient demand and constrained supply for selected types of real-time mobility services, for crowd flow and experience management in large and crowded urban spaces, for integrated maritime port and urban logistics scenarios, and for resource allocation and scheduling for urban safety and security.

The Corp Lab is offering 5 fully funded PhD scholarships to outstanding individuals who have keen interest in Urban Computing and Engineering, where students will have opportunity to work alongside with Corp Lab researchers, and to engage with leading industry players to design and implement working prototypes.

**Eligibility**

- Bachelor or Master of Science in Computer Science, Mathematics, Operations Research or related engineering disciplines
- Research experience (publications, conferences, competitions) would be an added advantage
- Must meet admission requirements of PhD programme of SMU

**Scholarship Terms**

The scholarship will cover tuition fees and a monthly living allowance (stipend) of up to $2,500 before Qualifying Exam, and up to $3,000 after Qualifying Exam.

Candidates with an interest in Urban Computing and Engineering, particularly in the following areas, may apply:

- Large-scale optimization and Meta-heuristics
- Autonomous Agents and Multi-agent Systems
- Agent-based Modeling and Simulation
- Human Behavioral Analysis
- Machine Learning and Statistical Analysis
- Urban Operations and Management