

One (1) Research Fellow Position under Future Resilient Systems Programme – Distributed Cognition Enabled by Data Science

The Singapore-ETH Centre (SEC), ETH partnering NTU, NUS, and UIUC has launched Phase II of the Future Resilient Systems (FRS II) Programme. The FRS II Programme aims to develop methods and tools to make infrastructure systems more robust and resilient.

In particular, Cluster 3 of FRS II on Distributed Cognition Enabled by Data Science focuses on the collection of data related to the social dimensions of resilient infrastructure. The Research Fellow position is for Module 3.1 Measuring, Modeling, and Enhancing Social Resilience, who will work with Prof Hans Herrmann (ETH Zurich) and A/P Cheong Siew Ann (NTU) to build and simulate complex network models, to understand how a community can recover critical social functions after a crisis. The Research Fellow is expected to help Prof Herrmann and A/P Cheong to survey the literature on modeling social resilience, and to communication with Prof Renate Schubert (ETH Zurich) and A/P Eko Riyanto (NTU), the Principal Investigators of Module 3.1, and their research team to incorporate their empirical findings into the complex network models.

The candidate should have a PhD degree in Computer Science, Information Science, Mathematics, or Physics, and should have experience building, analyzing, simulating complex network models, and published in this area. The candidate should have excellent analytical and programming skills, good problem solving and organizational skills, and also strong written and oral communication skills with demonstrated ability to conduct clear presentations and prepare written reports. In addition, the candidate should be highly committed and motivated, and be able to work in a highly interdisciplinary environment.

Qualified applicants are strongly encouraged to contact A/P Cheong (cheongsa@ntu.edu.sg) with their academic qualification along with a detailed CV and list of publications. The position is open until filled.