

Now Hiring Research Fellows and Research Assistants!

[iTrust](#) is looking to fill several research positions in the area of machine learning and cyber-physical systems. Applicants who meet the qualifications indicated below may apply.

Research Fellow:

- (a) A PhD in Computer Science or Computer Engineering; no experience required
- (b) Proficiency in high level programming (Python preferred)
- (c) Good working knowledge of computer networks

Research Assistant

- (a) A Bachelor's degree in any field of engineering
- (b) Proficiency in high level programming (Python preferred)
- (c) Good working knowledge of computer networks

Research staff will work with a strong and multidisciplinary team of faculty and research staff in iTrust on a project titled "Advanced-Intelligent Anomaly Detection System (AIADS)".

The project attempts to develop an Intelligent Anomaly Detection System (IADS) that detects anomalies in a Cyber Physical System (CPS) that may be compromised by vulnerabilities such as zero-day attacks, new viruses, malicious insiders, human error, unencrypted communication, and unsecure mobile devices and network. Traditional Intrusion Detection Systems (IDS) are incapable of identifying an anomaly when the attacker has already breached the network and has the ability to affect the operation of the CPS.

The IADS will employ machine learning capability that analyses the data of all field sensors stored in one or more historians or data acquisition servers (DAServer) to identify anomalous behaviour within a CPS.

About [iTrust](#)

iTrust is a vibrant centre for research in cyber security. Current research projects in iTrust focus on the design of secure public infrastructure, block chains, and secure IoT. Selected candidates will have a unique opportunity to work in one of the best centres for

research in cyber-physical systems and have access to realistic testbeds such as water treatment, distribution, electric power and IoT. Details can be found [here](#).

How to apply:

Interested applicants should write to iTrust@sutd.edu.sg with the subject "AIADS Recruitment". Please include up-to-date curriculum vitae in your application.

All positions will remain open until filled.