

Research Engineer/Fellow (Security Assessment and
Test) - PY4
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=235313>

Downloaded On: Jul. 3, 2024 3:38am

Posted Apr. 29, 2024, set to expire Aug. 29, 2024

Job Title Research Engineer/Fellow (Security Assessment and Test) -
PY4

Department Infocomm Technology

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Apr. 29, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Computer Science

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498653/research-engineerfellow-security-assessment-and-test-py4>

Apply By Email

Job Description

Research Engineer/Fellow (Security Assessment and Test) - PY4

Job no: 498653

Department: Infocomm Technology

Contract type: Contract

[Apply now](#)

Research Engineer/Fellow (Security Assessment and Test) - PY4 Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=235313>

Downloaded On: Jul. 3, 2024 3:38am

Posted Apr. 29, 2024, set to expire Aug. 29, 2024

As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

You will be working with a team of researchers in the Future Communications Translation Lab (FCTLab), the primary responsibility of this role is to investigate, analyse, and enhance end-to-end security in the 5G testbed, support the development, testing and validation of 5G security use cases and applications, in collaboration with industry partners.

Key Responsibilities

- Integrate network slice-based firewall policy, focusing on behavior of the slice to enhance End-to-End (E2E) security.
- Implement and test a feedback system to continuously refine security policies, ensuring the minimization of false alarms and positives.
- Conduct simulations and security testing across all points of the 5G network, including User Equipment (UE), Radio Access Network (RAN), and Core network, to assess and improve E2E security.
- Utilize the FCTLab Testbed for rigorous security testing and integrate findings to update security policies dynamically.
- Perform, create and maintain a centralized knowledge base of best practices, case studies, and research findings related to 5G cybersecurity, to support policy-making initiatives.

Job Requirements

- Degree in Cybersecurity, Computer Science, or a related field; certifications in cybersecurity (e.g., CISSP, CISM) preferred.
- Proficient in programming in C and Python, with experience in embedded Linux environments.
- Demonstrated capability in conducting high-level security tests and feasibility studies in collaborative industrial-academic research settings.
- Strong technical expertise in 5G technologies, including network slicing and E2E security considerations.

Key Competencies

- Able to build and maintain strong working relationships with people within and external to the university.

Research Engineer/Fellow (Security Assessment and
Test) - PY4
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=235313>

Downloaded On: Jul. 3, 2024 3:38am

Posted Apr. 29, 2024, set to expire Aug. 29, 2024

- Self-initiated who believes in continuous learning and development
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills.
- Strong initiative and take ownership of work
- Team player

[Apply now](#)

Advertised: 29 Apr 2024 Singapore Standard Time

Applications close: 31 Dec 2024 Singapore Standard Time

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore