

Research Associate (Computer Science/Cyber Security)  
Nanyang Technological University

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Downloaded On: May. 12, 2024 2:25pm

Posted Feb. 8, 2024, set to expire Jun. 9, 2024

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| <b>Job Title</b>            | Research Associate (Computer Science/Cyber Security)  |
| <b>Department</b>           | School of Computer Science and Engineering (SCSE)   |
| <b>Institution</b>          | Nanyang Technological University<br>Singapore, , Singapore  |
| <b>Date Posted</b>          | Feb. 8, 2024  |
| <b>Application Deadline</b> | Open until filled   |
| <b>Position Start Date</b>  | Available immediately   |
| <b>Job Categories</b>       | Research Scientist/Associate  |
| <b>Academic Field(s)</b>    | Computer/Information Sciences   |
| <b>Job Website</b>          | <a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Computer-Science-Cyber-Security-_R00016130">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Computer-Science-Cyber-Security-_R00016130</a> |
| <b>Apply Online Here</b>    | <a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Computer-Science-Cyber-Security-_R00016130">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Computer-Science-Cyber-Security-_R00016130</a> |
| <b>Apply By Email</b>       |   |
| <b>Job Description</b>      |   |

The School of Computer Science and Engineering (SCSE) invites applications for the position of Research Associate.

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Key Responsibilities:

- Employing automated methods for gathering and pre-processing data on software vulnerabilities.
- Designing and developing a ranking system based on AI model to calibrate the severity and the feasibility of fixing of vulnerabilities in the open-source software project.
- Building a cross-scope conflict remediation tool to effectively manage open-source software dependencies in a software project.
- Developing a remediation algorithm to integrate the information gathered in previous steps and calculate optimal solutions for the entire open-source software project.
- Writing high-quality research papers based on research results.

Job Requirements:

- Master's degree in Computer Science or Cyber Security or other related areas.
- Experience on data analysis, and software vulnerability reproduction (Proof of Concept).
- Familiar with optimization algorithms, such as SMT, and information retrieval techniques, including TF-IDF, N-gram calculation.
- Proficient in programming for AI model fine-tuning and algorithm implementations.
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Good communication and writing skills.

We regret that only shortlisted candidates will be notified.

**Contact Information**

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

**Contact**

Singapore