

Senior Research Engineer I (Software Development,
Graphic User Interface Design)
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=262805>

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| Job Title | Senior Research Engineer I (Software Development, Graphic User Interface Design) |
| Department | School of Electrical and Electronic Engineering |
| Institution | Nanyang Technological University Singapore, , Singapore |
| Date Posted | Sep. 22, 2025 |
| Application Deadline | Open untill filled |
| Position Start Date | Available Immediately |
| Job Categories | Research Scientist/Associate |
| Academic Field(s) | Engineering - Other |
| Job Website | https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Senior-Research-Engineer-I--Software-Development--Graphic-User-Interface-Design-_R00021985 |
| Apply Online Here | https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Senior-Research-Engineer-I--Software-Development--Graphic-User-Interface-Design-_R00021985 |
| Apply By Email | |
| Job Description | |

School of Electrical and Electronic Engineering is one of the founding Schools of the Nanyang Technological University. Built on a culture of excellence, the School is renowned for its high academic standards and research. With over 3,000 undergraduates students and 2,000 graduate students it is

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one of the largest EEE schools in the world and ranks 4th in the field of Electrical & Electronic Engineering in the 2025 QS World University Rankings by Subjects.

Today, the School has become one of the world's largest engineering schools that nurtures competent engineers and researchers. Each year, the School graduates over a thousand students who are ready to take on great ambitions and challenges.

For more details, please view: <https://www.ntu.edu.sg/eee>

We are looking for a Senior Research Engineer to support the research for the project titled: Non-intrusive Plug-and-Play Adaptive HVAC Control for FCU HVAC Systems.

Key Responsibilities:

The Senior Research Engineer will work on a BCA project to conduct research on Non-intrusive Plug-and-Play Adaptive HVAC Control for FCU HVAC Systems. The role of this position includes:

- Architecture design for a resilient FCU control software tool.
- Leading the software realization of each component in the architecture.
- Development of a graphic user interface, compatible with relevant building management systems (BMS) via automation protocols such as BACnet, OPCDA etc.
- Daily maintenance and upgrade of software modules.
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Collaboration with ground operators to ensure compliance of software cybersecurity regulations.

- To assist project PI to coach research students.

Job Requirements:

- A master's or PhD degree in relevant fields with past experience in software development, web-based graphic user interface design, network cybersecurity compliance.
- Solid understanding of common building automation protocols such as BACnet and OPCDA.
- Past knowledge and experience in development of commercial software systems is a plus.
- Excellent verbal and written communication skills.

We regret to inform 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