Senior Research Engineer I (USRP and Experimental Platform Developments)
Nanyang Technological University

Job Title	Senior Research Engineer I (USRP and Experimental Platform Developments)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Mar. 22, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Electrical and/or Electronics Engineering - Other
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Senior-Research-Engineer-I--USRP-and-Experimental-Platform-Developments-_R00016584-1
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Job Description

The 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

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standards and research. With more than 130 faculty members and an enrolment of more than 4,000, of which close to 1,000 are graduate students, it is one of the largest EEE schools in the world and ranks 4th in the field of Electrical & Electronic Engineering in the 2021 QS World University Rankings by Subjects.

EEE is inviting applications for the position of Senior Research Engineer I. The Senior Research Engineer I (USRP and Experimental Platform Development) will be mainly responsible for the programming on Labview platform to support the USRP based wireless communication systems.

Key Responsibilities:

- Responsible for USRP based wireless communication system building and corresponding platform programming.
- Have solid background on wireless communication, especially for antenna design and microwave transmission.
- Develop Labview based codes, and implement corresponding algorithms in wireless communication systems.
- Prototyping the SS-CPM/PD-NOMA and FH-SCMA/CD-NOMA algorithms into USRP-2974 with NI Labview and test its efficacy in the lab environment.
- To demonstrate the above algorithms in the laboratory with a minimum of 3 nodes, and evaluate the performance of the algorithms.
- Work with team members to ensure smooth integration of various subsystems.
- Document all processes and implementation.
- Manage tasks according to the project schedule.
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Work closely with PI, team members and collaborators to ensure timely and efficient completion of project milestones.

- Keep track of technology trends.

Job Requirements:

- Bachelor’s degree and above in Electronic Engineering or related field from a reputable university.
- Diploma with good industry experience may also be considered.
- Experience in embedded software development.
- Proficient and good skill in c programing, able to design corresponding code according to project requirement
- Candidate with knowledge of SCMA, CPM and NOMA would be preferred.
- Good understanding and ability in wireless communication systems, especially for antenna design and microwave transmission.
- Able to multi-task and work in a dynamic environment.
- Fluent verbal and written communications in English.
- Experiences in USRP development, wireless communication system building.
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Experiences in programming software (e.g., MATLAB, C, and C++).

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