

Research Fellow/Engineer (Radio Link Characterization)
5GTL
Singapore Institute of Technology

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Posted Aug. 21, 2023, set to expire Jul. 5, 2024

Job Title Research Fellow/Engineer (Radio Link Characterization) 5GTL
Department Infocomm Technology
Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Aug. 21, 2023

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Electrical and/or Electronics

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/497977/research-fellowengineer-radio-link-characterization-5gtl>

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Job Description

Research Fellow/Engineer (Radio Link Characterization) 5GTL

Job no: 497977

Department: Infocomm Technology

Contract type: Contract

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As part of the 5G TransLab @SIT, we are looking for research fellow or research engineer to conduct research, develop and perform Radio Access Network (RAN) and Radio Uni (RU) related performance

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investigations in our 5G testbed, and support in developing application-specific solutions, enabling innovative use cases in collaboration with industry partners which are tested and validated using the 5G testbed.

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.

Key Responsibilities:

- Investigate, adopt and devise novel methodologies to measure Radio Environment Maps from PHY measurements and extraction of Channel Impulse Response and related channel sounding measurements.
- Use mobile network testing equipment to assess and evaluate 5G NR coverage in private and public network settings leading to RAN optimization and planning
- Build models based on the measurement, and integrate them into the 5G digital twin platform
- Investigate the influence of MIMO and beamforming performance as well as other RF impairments-induced effects in the radio link system which influence the overall QoS.
- Support in developing application-specific solutions and enabling innovative use cases, testing and validating at the 5G testbed
- Manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Engage and supervise students with suitable related project scope for their design projects.
- Work independently and within a team to ensure proper operation and maintenance of equipment.

Job Requirements:

- Competency in RF link performance analysis in general for wireless communication systems.
- Experience in RF testing and measurements with specific applications to LTE/5G NR will be an advantage.
- Strong background and knowledge of physical layer and wireless communication systems
- Knowledge in 5G NR specific signalling and channel state information parameters will be advantageous.
- Preferably Masters or Ph.D. with experience in RF link aspects of wireless communications.
- Familiar with Matlab/Simulink with related test automation skills

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Advertised: 21 Aug 2023 Singapore Standard Time

Applications close:

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30 Sep 2023 Singapore Standard Time

Contact Information

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

Contact

Singapore