

Research Fellow (Metasurface) Nanyang Technological University

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Posted Jun. 19, 2024, set to expire May 6, 2025

Job Title	Research Fellow (Metasurface)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jun. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Electrical and/or Electronics
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Metasurface-_R00017555
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Metasurface-_R00017555
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Job Description	

The School of Electrical and Electronic Engineering is inviting applications for the position of Research Fellow. The Research Fellow will be mainly responsible for the metasurface design for the 6G URLLC, OAM backhaul and mMTC application.

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Key Responsibilities:

- Responsible for the advanced metasurface, RIS researches.
- Develop new communication methods based on new antennas, e.g., RIS-based new modulation, multiple access methods, backhaul, fronthaul, analog beamforming, etc.
- Research on new scenarios combined with communication and sensing technologies, e.g. Integrated Sensing and Communication (ISAC), Simultaneously Transmitting And Reflecting (STAR) RIS, etc.
- Research on long-distance transmission using OAM beams, e.g. metasurface lens, RIS-assist transmission, low interference demodulation, etc.
- Develop experiment demos and testbed, outdoor experiments.
- Work with team members to ensure smooth integration of various subsystems.
- Document all processes and implementation.
- Manage tasks according to the project schedule.

Job Requirements:

- Ph.D. degree in Electromagnetic Theory and Electronic Engineering or another related field from a reputable university.
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Research background in communication or electromagnetic theory with strong publications in related fields.

- Good understanding and ability in mathematics.
- Proficient and good skills in Matlab, CST, HFSS or other simulation software.
- Excellent algorithm analysis and design capabilities in the field of signal processing, **OR** experienced in RF antenna design.
- Fluent English speaking and writing skills as required to publish research.

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