Professor (Tenured) in “Quantum Sovereignty and Resilience (QUASAR)" Nanyang Technological University

Job Title	Professor (Tenured) in “Quantum Sovereignty and Resilience (QUASAR)"
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 3, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professor
Academic Field(s)	Computer/Information Sciences
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Professor--Tenured--in--Quantum-Sovereignty-and-Resilience--QUASAR--_R00015067
Apply By Email	

Job Description

The College of Engineering at Nanyang Technological University (NTU) is actively seeking two global leaders in Quantum Security and Trust to advance research in quantum engineering and information processing. One of these tenured full professor positions is an endowed chair supported by a generous endowment from the Dieter Schwarz Foundation .

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The chosen candidates will offer vision, leadership, oversight, and a strategic roadmap to engage faculty across various colleges, aiming to secure competitive interdisciplinary research funding from both public and private sectors. Their overarching objective is to position NTU as a global hub of excellence in Quantum Security, Trust, Sovereignty, and Resilience.

While the candidates will primarily affiliate with the School of Electrical and Electronic Engineering (EEE), they may also hold joint appointments with other schools within the College of Engineering or College of Science, contingent on their research expertise.

We seek individuals with a proven track record of leadership and distinguished scholarship in areas such as Quantum Cryptanalysis, Post-quantum Cryptography (PQC), Side-channel Leakage Resilient and Fault-tolerant PQC Accelerators, Quantum Key Distribution Systems, Quantum-safe Communication, Privacy-preserving Computing, and Post-quantum Data Security, among other relevant domains.

The ideal candidates will demonstrate exceptional abilities to proactively inspire and mobilize interdisciplinary teams. They should be adept at fostering a collaborative environment, aligning with our established vision and mission in the expansive field of Quantum Security and Trust.

For a comprehensive understanding, please refer to the attached position specifications.

Key Responsibilities:

The selected candidates are anticipated to assume leadership roles, driving the cultivation of new capabilities, fostering innovative ideas, and working collaboratively with fellow faculty members. This synergy is designed to attract funding and secure external resources for pivotal research areas. Performance metrics will encompass academic and societal impacts, evidenced by publication and citation metrics, a demonstrable track record of service to the public, industry, and academia, successful attainment of research grants, and a significant influence on industry or international prominence. Furthermore, the incumbents are tasked with forging robust collaborations with NTU's industry and research partners. This engagement aims to align capabilities with the evolving needs of the industry and public sector, facilitating the dissemination of expertise in quantum-safe solutions, quantum communication, and technologies focused on sovereignty and trust.

Requirements:

- PhD Qualification: A relevant PhD from an accredited university is essential. Candidates should possess a robust academic background, highlighting expertise and significant scholarly

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contributions in the field of quantum security.
- Research & Teaching Expertise: Demonstrated proficiency in Quantum Technologies, Security, and Trust through extensive research and teaching experience is required.
- Leadership & Collaboration: A proven track record in academic and research leadership, coupled with adept team-building capabilities.
- Cross-disciplinary Collaboration: Experience in leading cross-disciplinary research endeavours and cultivating collaborative initiatives.
- Funding Knowledge: A good understanding of the priorities, operations, and strategies of relevant funding bodies.
- International Affiliations: Strong networks and affiliations with reputable international entities and organizations.
- Recognition: International acclaim substantiated by delivering plenary and keynote presentations at leading conferences, as well as publications in esteemed journals.

For inquiries, kindly contact the Search Committee Chair at e3ssc-2@ntu.edu.sg.

Application:

Candidates are required to submit the following documents:

- A comprehensive CV detailing academic qualifications, professional experience, and achievements.
- A list of publications highlighting relevant research contributions.
- A cover letter that outlines:
  - Experience in teaching and leadership roles.
  - Specific interest in research related to Quantum Security and Trust.
  - Vision and aspirations for advancing research in Quantum Security and Trust within the College of Engineering.

Key Benefits:

NTU provides a globally competitive salary and generous startup package, aligning with the candidate's qualifications and experience. Eligible candidates may benefit from subsidized on-campus housing, granting convenient access to modern sports, dining, childcare, and healthcare facilities. Situated within a campus consistently recognized among the Top 15 Most Beautiful in the World, residents enjoy an enriching living environment.

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Contact Information

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

Contact

School of Electrical and Electronic Engineering
Nanyang Technological University
, Singapore
Singapore

Contact E-mail EEE-Fac-Recruit@ntu.edu.sg