

National Taiwan University

Graduate School of Advanced Technology

Faculty Position Opening

We invite outstanding scholars with a strong commitment to teaching and research to apply for full-time faculty positions in the following areas.

Programs & Research Areas

Integrated Circuit Design and Automation

Specialties: Integrated circuit system design and design automation pertaining (but not limited) to next-generation communication, artificial intelligence, embedded processor/memory, HW security, quantum computing, ultra-low-power computing and sensor, 2.5/3D heterogeneous integration, and advanced fabrication technology.

Semiconductor Devices, Materials, and Hetero-integration

Specialties: Next-generation transistor and memory device technology, 3D integrated circuit and hetero-integration, novel semiconductor material growth and characterization, key components and materials for quantum computing and quantum communication, device and process integration for advanced technology node, emerging semiconductor-related technology.

Nanoengineering and Nanoscience

Specialties:

[Theoretical Simulation]

- 1) Digital predictive process models (digital twins) in semiconductor engineering
- 2) Multi-scale simulation or multi-physics modeling of semiconductor devices
- 3) Electronic and structural properties of surfaces and interfaces in low-dimensional semiconductors
- 4) Computational materials physics
- 5) Quantum computing.

[Engineering and Science of Semiconductor Nano Devices]

- 1) Low-dimensional (including one-dimensional or two-dimensional) semiconductor materials
- 2) Manufacturing process, application, and precision measurement of semiconductor nano devices
- 3) Quantum photonics.

Precision Health and Intelligent Medicine

Research areas may include, but are not limited to, precision health, advanced medical devices, predictive modeling of physiological mechanisms in health and disease, advanced methods of biomedical data analysis, acquisition or reconstruction algorithms for imaging and sensing, and automated analysis and interpretation of high-dimensional biomedical imaging data.

Qualifications

- Applicants must possess a Ph.D. in electrical engineering, computer science, materials science, physics, chemistry, mechanical engineering, chemical engineering, medicine, or another related field.

- Ability to use English as a medium of instruction.
- International cooperation or industry experience is preferred.

Position & Appointment

- **Position:** Full-time Assistant Professor or above.
- **Date of Appointment:** August 1 or February 1.

Required Documents

- Cover letter.
- Curriculum vitae, including a publication list.
- Research statement, future plans, teaching philosophy, and proposed courses with syllabi.
- At least 1 representative publication from the past 5 years and up to 5 additional works.
- At least three letters of recommendation, signed by the referees and sent directly by email or mail.
- Copies of master's and doctoral diplomas and transcripts. Foreign degrees must be authenticated by a Taiwan representative office.

Notes

- Applicants who pass the preliminary review must submit five copies of the works/publications for external review, including a catalog of works/publications submitted for review and a co-authorship statement for the representative publication, by mail or email.
- Selected applicants will be contacted by phone or email regarding a public lecture. The schedule and format will be announced separately.
- Salary and benefits information is available upon request.

Application Deadline

Deadline September 30, 2026

Send the soft copy in PDF to shihyun@ntu.edu.tw.

Email subject: Application for GSAT Full-Time Faculty Position - NAME

Submission & Contact

Contact: Ms. Lin

Email: shihyun@ntu.edu.tw

Website: <https://gsat.ntu.edu.tw>

