

Tenure-Track Position Opening – CoSR of NTHU

I. Position Title

Tenure-Track Faculty Position in CoSR (Assistant Professor or above.)

II. Number of Positions : 4

III. Academic Requirements

- **Semiconductor Device Department:**
Ph.D. in Electrical Engineering, Electronics, Materials Science, Physics, or related fields.
- **Semiconductor Design Department:**
Ph.D. in Science or Engineering from a reputable institution.
- **Semiconductor Materials Department:**
Ph.D. in Science or Engineering from a reputable institution.
- **Semiconductor Process Department:**
Ph.D. in Science or Engineering from a reputable institution.

IV. Areas of Academic and Professional Expertise

- **Semiconductor Device Department:**
3D CMOS Process and Devices/ Nanoelectronics/ Nano-Photonics/ MEMS and BAW/SAW Technologies/ Memory and CIM Technologies/ Quantum and Qubit Technologies/ IoT Devices/ Secure Chip and PUF Technology/ Sensor and Detector Technologies
- **Semiconductor Design Department:**
VLSI Design for Circuits and Systems/ ASIC Design for AI Applications, Advanced Communications Systems, and Biomedical Systems/ VLSI Electronic Design Automation/ Electronic System-Level Design/ Embedded System Design/ Computer Architecture and Systems
- **Semiconductor Materials Department:**
 - Advanced semiconductor materials (1D/2D nanomaterials, quantum dots, compound semiconductors, organic optoelectronic materials)
 - Advanced packaging materials (conductive bonding materials, dielectric materials, thermal interface materials)
 - Advanced memory device materials (spintronics, ferroelectric materials, phase-change materials)
 - Silicon photonic materials
- **Semiconductor Process Department:**
 - Advanced semiconductor device processes, integration technologies, or advanced packaging techniques
 - Module technologies such as critical etching, deposition, and chemical mechanical polishing
 - Defect analysis, yield improvement, and reliability techniques
 - Advanced packaging module and integration technologies

V. Qualifications

- **Semiconductor Device Department:**
 - Ph.D. in Electrical Engineering, Electronics, Materials Science, Physics, or related fields with relevant research experience
 - Candidates with international or major project collaboration experience, research or industry background in related fields, and ability to teach in English are preferred
- **Semiconductor Design Department:**
 - Ph.D. in Science or Engineering with relevant research experience
- **Semiconductor Materials Department:**
 - Ph.D. in Materials Science, Physics, Chemistry, or related fields
 - Ability to teach in English
 - Experience in academic, research, or industrial R&D institutions is preferred
- **Semiconductor Process Department:**
 - Ph.D. in Materials Science, Physics, Chemistry, or related fields, and capable of teaching in English
 - Experience in semiconductor fabs, materials and equipment companies, or semiconductor-related R&D institutions (domestic or international) are preferred.

VI. Application Requirements

Candidates who meet the above criteria and demonstrate strong academic potential should prepare the following materials in PDF format:

- **Personal resume (including academic and professional background, list of publications, and research achievements)**

Email to: sr@my.nthu.edu.tw

Subject: "Application for Tenure-Track Faculty Position at CoSR of NTHU- Dr. [Your Name]"

VII. Additional Materials (For Qualified Candidates After Initial Review)

- A. Two signed letters of recommendation (sent directly by referees)
- B. Academic credentials and transcripts (Undergraduate and above)
- C. Representative publications within the last 3 years and doctoral dissertation
- D. Summary and list of research outcomes within the last 3 years
- E. Teaching and Research Statement
- F. List of courses that can be offered (preferably in English)
- G. Industry-Academia collaboration potential (including previous collaboration or technology transfer)
- H. Copy of teacher certification (if available)
- I. Other supporting documents (e.g., awards, patents, project outcomes)

VIII. Submission Method

1. Letters of recommendation should be mailed to:

Miss Naomi Yang
College of Semiconductor Research, National Tsing Hua University
No. 101, Section 2, Guangfu Road, East District, Hsinchu 300, Taiwan

2. Items (B) through (I) above should be submitted via email in PDF format to:

sr@my.nthu.edu.tw

Subject: "(Supporting Documents) Application for **Tenure-Track Faculty Position at CoSR of NTHU** - Dr. [Your Name]"

IX. Notes

1. Candidates who pass the document review will be notified via phone or email for an open seminar and interview (details will be arranged separately). Those not selected will not be individually notified.
2. Please also prepare and send the following electronically:
 - List of Submitted Publications
 - Co-author Declaration for Representative Publications

X. Contact Information

Phone: +886-3-5715131 ext. 42206 (Miss Naomi Yang)

Email: sr@my.nthu.edu.tw

****Note:** Recruitment information is subject to change. Please refer to the official website for the latest updates. **