POSTDOCTORAL RESEARCHER POSITION
Phase-Change Heat Transfer and Advanced Thermal Management

The **Nano-Energy Laboratory**, led by **Prof. Ming-Chang Lu**（呂明璋）in the Department of Mechanical Engineering at **National Taiwan University (NTU)**, invites applications for a **Postdoctoral Researcher** position.

The successful candidate will conduct research in **phase-change heat transfer and advanced thermal management**, with emphasis on:

- **Pool boiling** on engineered micro/nanostructured surfaces
- **Flow boiling** in channels for high-heat-flux cooling
- **Numerical simulation and design of liquid cold plates**

The research will combine **fundamental heat-transfer studies, experiments, and numerical modeling** for applications in **high-power electronics and semiconductor thermal management**.

Qualifications

Applicants should:

- Hold, or expect to soon receive, a **Ph.D. in Mechanical Engineering, Thermal Engineering, Energy Engineering, or a related field**
- Have a strong background in **phase-change heat transfer**
- Have demonstrated research ability through peer-reviewed journal publications
- Have good scientific writing and communication skills in English

Experience in pool boiling, flow boiling, and phase-change heat transfer is particularly desirable.

Position Details

- Start date: January 2027
- Appointment: Initial one-year appointment, with the possibility of renewal based on performance and funding availability
- Compensation: Monthly salary starting from approximately NT$65,000, commensurate with qualifications and experience
- Benefits: Year-end bonus of up to 1.5 months of salary, prorated according to the actual period of employment, with health insurance coverage
- Work location: Department of Mechanical Engineering, National Taiwan University, Taipei, Taiwan

Application

Interested applicants should submit the following materials by email to Prof. Ming-Chang Lu at mingchanglu@ntu.edu.tw:

1. Cover letter describing research experience and interests
2. Curriculum vitae with publication list
3. Copies or links to selected publications
4. Brief description of previous research accomplishments
5. Contact information for two or three references

Applications will be reviewed upon receipt and will remain open until a suitable candidate is identified.

Prof. Ming-Chang Lu, Ph.D. |ASME Fellow | AUTSE Fellow | IAAM Fellow

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