



Announcement of the University Personnel Management Committee  
King Mongkut's University of Technology North Bangkok

---

The University Personnel Management Committee of King Mongkut's University of Technology North Bangkok (KMUTNB) seeks qualified individuals for recruitment and selection to be appointed as university staff in **the lecturer positions with the position numbers 715, 1632, and 1659.**

- Salary: **33,660 Baht per month**
- Affiliation: **The Sirindhorn International Thai-German Graduate School of Engineering (TGGS)**
- Number of positions: **3 lecturer positions**

1. Applicants must meet the qualifications specified in Section 6 of the Regulations of King Mongkut's University of Technology North Bangkok on University Personnel Administration, B.E. 2551 (2008). Additionally, applicants must have graduated from a higher education institution that is accredited by one of the following organizations:

- Office of the Civil Service Commission (OCSC)
- Office of the Higher Education Commission (OHEC)
- Office of the Teacher Civil Service and Educational Personnel Commission (OTEPC)
- Office of the Permanent Secretary (OPS), Ministry of Higher Education, Science, Research and Innovation (MHESI)

2. Qualifications for Application

**2.1 Lecturer Position No. 715 – Affiliated with the Department of Mechanical and Automotive Engineering (MAE)**

1) Educational Qualification:

- A Doctoral degree in Robotics Engineering, Mechatronics Engineering, Automation Systems Engineering, or a related field (Interview will be conducted in English).

2) Required Knowledge and Expertise (Required Qualifications):

- Robotics: Development and control of industrial robots and mobile robots.
- Embedded Systems: Design and development of embedded systems for electric vehicles and automation systems.

3) Additional Considerations (Preferred Qualifications): Applicants with knowledge and experience in the following areas will be given special consideration:

- Automation: Control of automation systems, including PLC programming, SCADA implementation, and real-time control system design.
- IoT and Cloud Integration: Management of data and Industrial IoT (IIoT) platforms.
- AI and Machine Learning: Development and application of artificial intelligence in industrial settings.

4) English Proficiency:

- Strong English communication skills.
- Ability to teach in international programs that use English as the primary language.

5) Research and Innovation Experience:

- Experience in research or innovation related to robotics, embedded systems, automation, or artificial intelligence.

6) Research Publications:

- Published research articles in international academic journals ranked SCOPUS Q1-Q2 or equivalent.
- Demonstrated ability to produce new research work.

7) Applicants with the following work experience or qualifications will be given special consideration:

- Teaching experience at the undergraduate level in related fields.
- Industry experience in fields related to robotics, embedded systems, automation, or artificial intelligence.
- Proficiency in Chinese or German.

**2.2 Lecturer Position No. 1632 – Affiliated with the Department of Electrical and Computer Engineering (ECE)**

1) Educational Qualification:

- A Doctoral degree in Power Engineering or a related field (Interview will be conducted in English).

2) Required Knowledge and Expertise (Required Qualifications):

- Strong knowledge and expertise in power engineering, particularly in:
  - Distributed Generation Systems
  - Control and Protection of Electric Power Generation
  - Modern Grid Operation and Control
  - Power System Reliability

3) English Proficiency:

- Strong English communication skills.
- Ability to teach in international programs that use English as the primary language.

4) Research Capability:

- Ability to conduct and produce high-quality research work.

5) Preferred Qualifications (Special Consideration): Applicants with the following experience will be given special consideration:

- Industry experience in relevant fields.
- Proficiency in German.

**2.3 Lecturer Position No. 1659 – Affiliated with the Department of Electrical and Computer Engineering (ECE)**

1) Educational Qualification:

- A Doctoral degree in Electrical Engineering, Electronics Engineering, Computer Engineering, or a related field (Interview will be conducted in English).

2) Required Knowledge and Expertise:

- Strong expertise in microelectronics design engineering, with a focus on:
  - Analog Circuit Design
  - Mixed-Signal Circuit Design
  - Internet of Things (IoT)
  - Wireless Technology

3) English Proficiency:

- Strong English communication skills.
- Ability to teach in international programs that use English as the primary language.

4) Research Capability:

- Ability to conduct and produce high-quality research work.

5) Preferred Qualifications (Special Consideration): Applicants with undergraduate teaching experience in related fields will be given special consideration.

3. Job Responsibilities (Term of Reference)

**3.1 Lecturer Position No. 715 – Affiliated with the Department of Mechanical and Automotive Engineering (MAE)**

1) Teaching Responsibilities:

- Core courses:
  - Industrial Robotics
  - Embedded System
- Partial Teaching Contribution in other courses:
  - Automation Control and PLC
  - Advanced Automation Control Systems
  - Internet of Things (IoT)

- Artificial Intelligence (AI)
    - Other courses assigned within **the Electric Vehicle and Automation Systems Engineering (EVAE)** curriculum.
    - Additional courses assigned within any TGGs programs
- 2) Research Responsibilities:
- To conduct research focused primarily on robotics and embedded systems.
  - To support research in related fields such as automation, AI, and Industrial IoT (IIoT) if specialized.
  - To collaborate with industries and research organizations such as NSTDA, NRCT, TSRI, or other funding agencies.
- 3) Laboratory Development:
- To establish and develop a robotics laboratory that also support other fields such as embedded systems, automation, AI, and IIoT if specialized.
  - The laboratory aims to enhance research quality and the learning experience while fostering collaboration with the industrial sector
- 4) Industry Collaboration:
- To coordinate with industries on teaching, internships, and cooperative education programs.
- 5) Academic Supervision:
- Supervise undergraduate, master's, and Ph.D. students in thesis and research projects.
- 6) Curriculum Development:
- To contribute to the development and modernization of the bachelor's degree curriculum in **Electric Vehicle and Automation Systems Engineering (EVAE)** to align with industry needs.
- 7) Academic and Industrial Networking:
- To build and strengthen collaborations with national and international academic institutions and industries, including RWTH Aachen University.
- 8) Research Planning and Funding:
- To plan and develop research projects for faculty and students.
  - To support grant applications from domestic and international funding sources.
- 9) Student Support and Guidance:
- To mentor and advise students on academic performance and career development, ensuring graduation within the required timeframe.

10) Other Duties:

- To perform additional tasks as assigned by the supervisor.

**3.2 Lecturer Position No. 1632 – Affiliated with the Department of Electrical and Computer Engineering (ECE)**

1) Teaching Responsibilities:

- To teach the following courses in the **Electrical Power and Energy Engineering (EPE)** program:

- Modern Power Grid Operation and Control
- Electric Power Generation Control and Protection
- Power System Reliability

- To teach relevant undergraduate courses and other assigned subjects.

2) Research Responsibilities:

- To conduct research in power system analysis and power system reliability.
- To collaborate with industries and research organizations, such as NSTDA, TISTR, or other funding agencies.

3) Academic Networking:

- To establish and expand academic collaborations at the national and international levels.

4) Industry Collaboration:

- To coordinate with industries regarding teaching and student internship programs.

5) Research and Academic Supervision:

- To conduct research and serve as a thesis advisor for master's and Ph.D. students in Electrical Power and Energy Engineering (EPE) program, as well as undergraduate students in TGGs.

6) Curriculum Development:

- To participate in the development and improvement of the **Electrical and Computer Engineering (ECE)** curriculum and TGGs undergraduate programs.

7) Collaboration and Research Support:

- To establish collaborations with domestic and international organizations to support research and faculty development at TGGs.

8) Research Planning and Development:

- To assist in planning and developing research projects for faculty and students in **Electrical Power and Energy Engineering (EPE)** program.

9) Other Duties:

- To perform additional tasks assigned by the supervisor.

3.3 **Lecturer Position No. 1659** – Affiliated with **the Department of Electrical and Computer Engineering (ECE)**

1) Teaching Responsibilities:

- To teach Design of CMOS Mixed-Signal Integrated Circuits in the Bachelor's Degree program in **Microelectronics Design and Semiconductor Engineering (MEDE)**.
- To teach intelligent microelectronics-related courses in the Master's Degree program in Electrical and Computer Engineering (ECE) Department.
- To teach additional courses in various programs assigned within TGGGS.

2) Research Responsibilities:

- To conduct research in Microelectronics design and Semiconductor.
- To Collaborate with industries and research organizations, such as NSTDA, NRCT, TSRI, or other funding agencies.

3) Academic Networking:

- To establish and expand academic collaborations at the national and international levels.

4) Industry Collaboration:

- To coordinate with industries regarding teaching, internships, and cooperative education programs for students.

5) Research and Academic Supervision:

- To Conduct research and serve as a thesis advisor for Master's and Ph.D. students in Electrical and Computer Engineering (ECE) department.

6) Curriculum Development:

- To contribute to the development and improvement of the Bachelor's Degree program curriculum in **Microelectronics Design and Semiconductor Engineering (MEDE)**.

7) Research and Faculty Development Collaboration:

- To seek collaborations with national and international organizations to support research and to promote the development of TGGGS faculty members.

8) Research Planning and Development:

- To assist in planning and developing research projects for faculty and students in **Microelectronics Design and Semiconductor Engineering (MEDE)**.

9) Other Duties:

- To perform additional tasks assigned by the supervisor.

4. Required Documents for Application **Applicants must submit the following documents:**

4.1 Academic Credentials:

- A degree certificate or official certification approved by the University Council/Institution before the application deadline, along with one copy.

4.2 Academic Transcript:

- A transcript of academic records, along with one copy.

4.3 Personal Identification:

- A copy of the house registration and national ID card (one copy each).

4.4 Military Service Documentation (if applicable):

- A copy of Sor Dor 9 (S.D. 9) or Sor Dor 43 (S.D. 43) or other relevant military service documents.

4.5 Medical Certificate:

- A medical certificate issued within the last six months.

4.6 Photographs:

- Two (2) passport-sized photographs (1-inch), front-facing, without a hat or dark glasses.

Interested applicants should inquire and submit their applications at:

The Dean Office, 3rd Floor,

the Sirindhorn International Thai-German Graduate School of Engineering (TGGS)

King Mongkut's University of Technology North Bangkok

1518 Pracharat 1 Road, Wongsawang, Bangsue, Bangkok

Phone: +66 2-555-2000 ext. 2902

**Application Period: January 20 – February 28, 2025**

(during office hours on working days).