

◇ Job Opening – Professor in Center for Advanced Research of Energy and Materials ,The Faculty of Engineering, Hokkaido University ◇

Job Opening – Professor in Center for Advanced Research of Energy and Materials

The Faculty of Engineering, Hokkaido University invites applications for the academic position of Professor according to the following description:.

1. Faculty Position

Professor (Tenured)

2. Division

(Immediately after employment)

Laboratory of Integrated Function Materials, Center for Advanced Research of Energy and Materials

(Scope of changes)

Places as determined by the University

3. Field of Expertise (Research Field)

Microstructure analysis of materials using mainly electron microscopes, and the interdisciplinary field of computational science and materials science

In addition, the candidate will concurrently serve as professor at the ultra-high voltage electron microscope research facility in Hokkaido University, and through the use of various electron microscopes and combined quantum beam ultra-high voltage electron microscopes, will be involved in the promotion of interdisciplinary research and collaborative research on semiconductors and green transformation both domestically and internationally at Green Transformation Innovation Center and Institute for Frontier Education and Research on Semiconductors. Moreover, the candidate will proactively participate in equipment sharing projects both within and outside Hokkaido University through Advanced Research Infrastructure for Materials and Nanotechnology in Japan by Ministry of Education, Culture, Sports, Science and Technology, Japan and will be actively involved in educational research support and human resource development projects, as well as actively involved in the operation of the facility and future plans.

4. Scope of Work

4.1 Teaching

Graduate courses in Japanese/English (Division of Materials Science and Engineering)

Undergraduate courses in Japanese/English (Department of Applied Science and Engineering)

4.2 Supervising Duties

Thesis supervision for undergraduate and graduate students

4.3 Other Duties

Duties (in Japanese) as Faculty/Course committee member, etc.

5. Minimum Qualifications

- (1) Candidates have enough teaching record and managing experiences about share use equipment, and have the motivation and ability to pioneer research that contributes to society through electron microscopy, primarily in the interdisciplinary field of computational science and materials science, as well as a strong commitment to teaching.
- (2) Ph.D.

6. Expected Start of Employment

1st September 2025, or as soon as possible after this date

7. Probation Period

Three months

8. Working hours, etc.

Monday to Friday

Discretionary work routine based on consent (standard 8:30-17:00, Deemed to have worked

7 hours and 45 minutes in a day.) or fixed working hour system

Break time 45 minutes

9. Salary

- National University Corporation Hokkaido University Salary Regulations for Faculty Subject to Annual Salary System

10. Health insurance, etc.

- Employee pension insurance
- Mutual Association of the Ministry of Education, Culture, Sports, Science and Technology
- Employment Insurance
- Workers' accident compensation insurance

11. Status of measures to prevent passive smoking

Smoking in designated areas only

12. Name of recruiting Institution

Hokkaido University

13. Documents to Submit

- Applicants shall submit the following application documents (1) through (8) using A4-sized paper sheets. The designated format for the documents (1) through (3) can be downloaded from the following site:

<https://www.eng.hokudai.ac.jp/english/recruit/>

- Applicants shall choose the following submission method.

-Submission via JREC-IN Portal web

Applicants shall submit all documents in PDF format.

- Application documents

- (1) Curriculum vitae (including picture, date of birth, nationality if other than Japanese, current address, contact information (postal address, phone number and e-mail address), educational history after university, degrees acquired, qualifications, employment history)
- (2) A) Research achievements (listed in chronological order) as demonstrated by publication in research journals (showing impact factor and times cited if any, and indicating corresponding author marked with *), other publications such as commentaries, reviews, invited lectures, proceedings from international symposiums, or works produced, patents, etc.
B) Grants awarded (noting main author, task performed, and separated into the following categories): scientific research grants, collaborative research/funded research (main author

- only), public research grants (main author only)
- C) Membership and involvement in professional organizations, societal contributions (including collaborations with industry), and honors awarded
- (3) Educational Accomplishments
 - A) Supervision (noting courses supervised and separated into the following categories: undergraduate and graduate levels, adjunct positions, and positions outside the university)
 - B) Improvement of Education: textbook authorship/translations, books/papers on improvement of education, grants/awards received concerning education
 - C) Miscellaneous: history of participation and activity in educational committees with notable events mentioned
- (4) Five journal publications within the last five years accompanied by PDF of each journal publication
- (5) Summary of recent research and research plan (3-4 pages of A4-sized paper sheets including figures and tables)
- (6) Education plan (approximately 1000 words)
- (7) Your aspirations and future plan for the share use equipment project and management of facilities (approximately 500 words)
- (8) Contact information of two references (name, institution, phone number, E-mail address)

14. Deadline for Application

All submitted documents must be received by Hokkaido University by 5:00 p.m. in Japan Standard Time (JST) Friday, June 20, 2025.

15. Submission Method

Applicants shall choose the following submission method.

Submission via JREC-IN Portal web

Application documents in PDF format shall be submitted via the upload link of JREC-IN Portal (<https://jrecin.jst.go.jp/seek/SeekTop>).

※ The application documents will be used solely for selection.

16. Others

- (1) Interviews may be conducted during the selection. Please note that transportation and other expenses will not be provided for the interviewees.
- (2) Hokkaido University actively promotes education and research activities while relying on diverse human resources and gender equality. Therefore, Hokkaido University explicitly invites non-Japanese applicants and female applicants qualified in Mechanical and Aerospace Engineering. Hokkaido University is also committed to support a work-life balance for employees, and to create an environment in which employees can demonstrate their abilities and achieve their full potential.

17. Contact Addresses

Inquiries

Prof. Tamaki Shibayama, Director

Center for Advanced Research of Energy and Materials

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18. Further Information

Further information can be found at the following URL:

<https://www.eng.hokudai.ac.jp/english/>