

Faculty Member Recruitment at the rank of associate professor

Kyushu University Research Center for Negative Emissions Technologies (K-NETs)

Kyushu University Research Center for Negative Emissions Technologies (K-NETs) was established on April 1, 2021 as a research promotion base for basic research on carbon dioxide (CO₂) circulation and social implementation of the research achievements.

<https://k-nets.kyushu-u.ac.jp/en/> for more details about this center.

K-NETs is seeking to recruit globally, a tenure track faculty at the rank of associate professor.

- 1. Purpose:** Toward Kyushu University's goal of becoming "a university that drives social change through comprehensive knowledge," and based on its world-class research record, we aim to create a "distributed carbon resource circulation system" that uses the ubiquitous CO₂ in the atmosphere as a carbon resource in order to contribute to the solution of social issues toward the realization of a "decarbonized" society. In order to achieve this goal, we will build up on the foundation of energy research that we have cultivated so far, strengthen our organization for research and development of separation membranes which enables capturing CO₂ from the atmosphere and producing value-added carbon resources from the captured CO₂. The purpose of this project is to strongly promote world-leading top-level energy research. To establish a strong organization, we recruit excellent researchers and press forward top-level energy research which leads the world.
- 2. Current Openings:** One position for five-year tenure track faculty at the rank of associate professor. Refer to item 7. Appointment Terms and Conditions (Renewal of the appointment shall be considered based on performance evaluation. A mid-term performance evaluation will be conducted in the first half of the third year, and a final evaluation will be in the first half of the fifth (final) year. A reappointed individual will be awarded tenure at the rank of associate professor.)
- 3. Affiliation:** Research Center for Negative Emissions Technologies (K-NETs)
- 4. Field of Specialties:**
CO₂ Capture Research
 - Those who have excellent research achievements in the development of new materials based on molecular design and synthetic chemistry that leads to the

creation of functional membranes centering around CO₂ separation, such as organic-based compounds including small molecules, polymers, coordination compounds, and their composites and also to the creation of functional membranes composed of these developed materials.

- A successful candidate will focus on the creation of new CO₂ separation membranes in this research center. However, research achievements or experiences in CO₂ separation membranes is not necessarily required at the stage of application. We seek for those who are passionate about developing new functional separation materials and CO₂ capture technology by utilizing them, and about the fundamental chemical research to support these research developments.

We seek for those who can design and analyze the separation and reaction occurred on the interface and surface at the molecular level, not just from a process engineering perspective, and promote related fundamental chemical research based on the creation of new materials. We also look for personnel who has aspirations for industry-academia collaboration.

5. Qualifications:

Applicants must:

- (1) have a doctorate or Ph.D. degree or equivalent (including those who are expected to obtain the degree before the start of work).
- (2) have expertise and excellent research achievements in the fields mentioned in item 4. Field of Specialties.
- (3) able to provide education and research guidance in English.

6. Date of Appointment: April 1, 2022 or later (preferably no later than April 1, 2022)

7. Appointment terms and conditions:

Full-time position starting from the date of appointment until March 31, 2027.

(Full retirement age is 65.) A reappointed individual will be awarded tenure after the end of five-year tenure track.

A successful candidate will work with a laboratory related to the candidate's research theme, and which is led by a division head in the Center. The candidate is expected to help advance their research activities and help with smooth research operation.

8. Required Documents:

All documents must be in English or Japanese language and be submitted as a soft copy.

- (1) Curriculum vitae (with a face photo, educational background, work experience, qualifications, contact information and e-mail address)

- (2) Research achievements: please categorize into items below:
Academic papers, International conference, Original and edited books, Review articles or academic printing materials, Inventions, Design and patents and Others (papers to be published, invited lectures and so on).
- (3) External funding acquisition (KAKENHI funding, joint research, contract research (main acquisition)).
- (4) Outline of your past research (within 2,000 words).
- (5) Future research plan (within 2,000 words).
- (6) Reasons for application, your aspiration and determination for education and research (within 1,000 words).
- (7) Paper reprints (up to five (5) papers, copies acceptable)
- (8) Names and contact information of two or more references (name, affiliation, position and e-mail address)

The above documents will be used only for the selection process and will be responsibly destroyed after use.

9. How to submit documents

Please upload a set of required documents ((1) to (8) above) as one PDF file and enter necessary information in the website linked below. Submissions by e-mail attachments is not accepted.

<https://forms.gle/WcYCHbPVLs3cPi4D7>

10. Application Deadline: 3 p.m., Monday, January 31, 2022 (Japanese Standard Time).

11. Selection Process:

- (1) Document review
- (2) Interview (Only for candidate selected through the document review process)
 - * Travel expenses for the interview will not be provided.
The interview will be conducted face-to-face in principle. However online interview is also available.
 - * All interviews will be conducted in English as being able to work in a global environment is an important element.

12. Inquiry:

General Affairs and Human Resources, I²CNER · Q-PIT Office of Research Support Services, Kyushu University

e-mail: ms-iq@jimu.kyushu-u.ac.jp

* Please write "K-NETs faculty position application" in the email subject.

Phone: +81-(0)92-802-6933 FAX: +81-(0)92-802-6939

13. Others:

- Kyushu University is an equal opportunity employer and follows the principles of the Basic Act for Gender Equal Society (Act. No. 78 of 1999).
- Kyushu University is an equal opportunity employer and follows the principles of the Basic Act for Persons with Disabilities (Act No.84 of 1970), Act on Employment Promotion etc. of Persons with Disabilities (Act No. 123 of 1960, revised in 2013), and the Act on the Elimination of Discrimination against Persons with Disabilities (Act No. 65 of 2013).
- Kyushu University established the System of Employment of Faculty Members with Accompanying Spouse in July 2017.