

**Position Open: Postdoctoral Fellow at Hokkaido University
Institute for Chemical Reaction Design and Discovery**

The Institute for Chemical Reaction Design and Discovery (ICReDD), Hokkaido University, as a global research center based on the “World Premier International Research Center Initiative (WPI)”, which was supported by Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT), constructs an international research environment which gathers world-leading researchers and establishes a research environment that integrates computational, information and experimental sciences, in order to establish a new academic field “Chemical Reaction Design and Discovery”, to provide substantial knowledge on chemical reactions that efficiently develop chemical reactions and materials for the future necessity, and to sustainably cultivate human resources engaged in the field of “Chemical Reaction Design and Discovery”.

We are inviting applications for the position of Postdoctoral Fellow (Gao group), Institute for Chemical Reaction Design and Discovery, Hokkaido University as follows.

1. Name of Recruiting Institution

National University Corporation Hokkaido University

2. Position

Postdoctoral Fellow, 1 opening

(Open to women only, in accordance with Article 8 of the Equal Employment Opportunity Act)

3. Employment Term

From the starting date to March 31, 2027

(Appointment may be renewed as every fiscal year in view of the circumstances (hiring expense etc.) and could be extended up to March 31, 2029, within the range of 10 years from one's starting date.)

4. Department

(Just after hiring) Institute for Chemical Reaction Design and Discovery

(Scope of change) No change expected

5. Location

Sapporo (Hokkaido University), JAPAN

6. Research Field

Computational Chemistry, Computational Catalysis

7. Job description

(Just after hiring) In the ICReDD Gao group, the following research will be carried out mainly to promote integrated research in computational, information and experimental sciences.

(1) Mechanistic studies and reaction prediction of catalytic processes using automated reaction pathway search methods (GRRM)

(2) Mechanistic investigations of both homogeneous and heterogeneous catalytic reactions

(3) Analysis of chemical activity descriptors from large-scale computational data

(4) Chemical structure reprogramming by theoretical Calculations

(Scope of change) No change expected

8. Qualifications

(1) PhD degree(s) at the time of appointment

(2) Outstanding achievements and publications in the research field

(3) Ability and willingness to actively engage in interdisciplinary research

(4) Research experience in automated reaction path search methods (AFIR method)

9. Desired Starting Date

July 1st, 2026 or as early as possible after acceptance is notified (yet, still negotiable)

10. Probation Period

The probation period is one month.

11. Salary

Annual Salary System

*The salary will be determined in accordance with the regulations of Hokkaido University.

*No travel expenses will be provided for the assignment or resignation.

12. Working Form

Discretionary labor system for professional work(*) based on the employee's agreement or Fixed working hours system

*The standard working hours for a day is deemed as 7 hours and 45 minutes.

*The leaves will be granted in accordance with the University's rules and regulations.

13. Health Insurance and Pension

The Ministry of Education, Culture, Sports, Science and Technology Mutual Aid Association Services including Health Insurance, Employee Pension, Workers' Accident Compensation Insurance and Employment Insurance

14. Measures to Prevent Second-hand Smoke

Smoking in designated areas only

15. Application Materials

(1) Curriculum Vitae

*Free format with an attached profile photo of the applicant, the following information should be included: Name, current address, telephone number and Email address, Date of Birth, academic history, degree(s), license, career history, awards, membership of organizations etc.

*Applicant who has been employed by Hokkaido University from April 1, 2013 (any position, including Part-time Lecturer, Teaching Assistant, Teaching Fellow, Research Assistant and Short-term Support Assistant, etc.) should provide full details of your employment history.

(2) List of research activities, including original scientific papers, book chapters, other publications, presentations in scientific meetings, awards, and other relevant activities.

(3) List of major publications (at most five)

* the following information should be included: summary, role, number of citations

(4) Summary of past and current research (One A4 page or less)

(5) Prospects and aspirations for future education and research at ICRReDD (One A4 page or less)

(6) A list of two references (including the names, phone numbers and e-mail addresses)

*All the above application documents must be written in English.

16. Application Deadline

April 17, 2026 (JST)

*Recruitment may end earlier if the employee is decided before the deadline

17. Application Submission

Files including the documents above should be sent to the following e-mail address:

E-mail: recruit AT icredd.hokudai.ac.jp

*Change AT into @ when sending an e-mail.

*Please put "Application for Postdoctoral Fellow in ICRReDD (Gao group)" in the subject box.

*Personal information will be exclusively used for the screening.

18. Inquiries

Associate Prof. Min Gao

Institute for Chemical Reaction Design and Discovery (ICReDD), Hokkaido University

Kita 21 Nishi 10, Kita-ku, Sapporo, Hokkaido, 001-0021, Japan

Phone: +81-11-706-9670

E-mail: gaomin AT icredd.hokudai.ac.jp

*Change AT into @ when sending an e-mail.

19. Others

• At Hokkaido University, we actively promote both education and research while fostering diverse human resources and gender-equality. Therefore, to improve the significantly low representation of female researchers, this recruitment is open exclusively to women based on Article 8 of the Act on Securing, Etc. of Equal Opportunity and Treatment between Men and Women in Employment.

- The Promotion office of Research environment for Diversity of Hokkaido University is working to promote a research environment in which diverse human resources can play an active role, focusing on human resource development for female researchers and support for balancing research activities and family life. For more information, please visit the Promotion office of Research environment for Diversity website at the following URL.
<https://reed.synfoster.hokudai.ac.jp/>