

**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),” 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”.

<https://www.icredd.hokudai.ac.jp/>

The Aizawa Group (to be newly established in March 2026) at ICReDD, Hokkaido University, is seeking applications for a postdoctoral researcher position as outlined below.

1. Name of Recruiting Institution

National University Corporation Hokkaido University

2. Position

Postdoctoral Fellow, 1 opening

3. Employment Term

The initial appointment will be for one year, starting from the earliest possible date after April 1, 2026 (negotiable). The appointment is expected to be renewable on an annual fiscal-year basis and can be extended up to March 31, 2028.*

*The maximum employment period may be further extended depending on funding availability and performance review. Even if the employment cap is not extended, the Aizawa Group is currently engaged in long-term projects such as JST CREST and JSPS International Collaborative Research programs, and employment beyond March 31, 2028 may be possible under a different project, depending on the individual's suitability and abilities.

4. Department

(Just after hiring) Institute for Chemical Reaction Design and Discovery (ICReDD)
(Scope of change) No change expected.

5. Location

Sapporo, JAPAN (Hokkaido University)

6. Research Field

Synthetic organic chemistry, photochemistry, physical chemistry, materials chemistry, organic electronics, quantum chemistry, data science

7. Job description

(Just after hiring) The successful candidate will work on WPI ICReDD projects integrating computational, information, and experimental sciences in the Aizawa group. Depending on the applicant's experience and research interests, one or more of the research topics listed below may be selected. Proposals that leverage the applicant's own expertise and research background are also welcome.

(1) Synthesis and photophysical characterization of novel organic materials

(2) Fabrication of organic light-emitting diodes (OLEDs)

(3) Materials design using quantum chemical calculations and machine

(4) Materials exploration using automated chemical synthesis robots

Related publications:

• Delayed Fluorescence from Inverted Singlet and Triplet Excited States, *Nature* **2022**, 609, 502–506.

• Bayesian Molecular Optimization for Accelerating Reverse Intersystem Crossing, *Chem. Sci.* **2025**, 16, 9303–9310.

8. Qualifications

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

(2) Outstanding achievements and publications in the research field

(3) Strong motivation to actively engage in new integrations with different fields

9. Probation Period

The probation period is one month.

10. Salary

Annual salary system (determined in accordance with the University's regulations, based on the applicant's experience and abilities*).

* Model annual salary: approximately JPY 4.56 million (in the first year). Travel expenses for relocation at the time of appointment or at the end of employment will not be provided.

11. 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.

12. 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

13. Measures to Prevent Second-hand Smoke

Smoking in designated areas only

14. 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 and (at most five)

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

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

15. Application Deadline

The position will remain open until a suitable candidate is found.

16. 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 (Aizawa group)" in the subject box.

*Personal information will be exclusively used for the screening.

17. Inquiries

Prof. Naoya Aizawa

Institute for Chemical Reaction Design and Discovery (ICReDD),

Hokkaido University

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

E-mail: n-aizawa AT icredd.hokudai.ac.jp

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

18. Others

• At Hokkaido University, we actively promote both education and research while fostering diverse human resources and gender-equality. Therefore, we explicitly invite women qualified in this research field to apply.

• As a measure to increase the percentage of female researchers at the University in accordance with Article 8 of the Act on Securing, Etc. of Equal Opportunity and Treatment between Men and Women in Employment, priority will be given to women if they are recognized as having the same competence required for the job based on a fair evaluation.

• The Office of Diversity, Equity, and Inclusion 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 Office of Diversity, Equity, and Inclusion website at the following URL.
<https://www.dei.hokudai.ac.jp/en/>