

Hokkaido University Integrated Science Program

Recruitment of Assistant Professor (Physics)

The Institute for Advancement of Higher Education at Hokkaido University invites applications for a 5-year fixed term faculty position in any area of physics. The primary duties of the appointee will be to (1) teach a major component of the physics curriculum of the English-language undergraduate degree program for international students (Integrated Science Program; ISP) which has successfully operated since 2017, and (2) conduct world-leading research in their physics-based discipline of specialty.

1. Position

Assistant Professor (5-year appointment. A performance evaluation will be conducted and a successful employee can be reappointed once. In the case of the reappointment, the additional term is 5years.)

2. Department

Institute for Advancement of Higher Education.

The prospective staff member will be allocated office space in the Faculty of Science.

3. Field of Research

Physics – any subfield

4. Location

Hokkaido University, Sapporo Campus, Hokkaido, Japan

5. Duties

- (1) Teaching: approximately 6 unit-hours per week per semester for the undergraduate ISP curriculum in English, ranging from entry-level physics for general science majors to advanced latter year topics.
Preliminary course responsibilities: Physics 2, Electromagnetism 1 and 2, Statistical Mechanics 1, Complex Functions, and accompanying seminars associated with these courses.
- (2) Contribute to the evaluation of prospective ISP students. Duties include screening of application documents, conducting interviews, and overall evaluation of applicants.
- (3) Conducting world-leading research in the area of expertise of the applicant. The applicant has relative freedom in their topic of research, but those who can clearly show the possibility for synergy with the research interests of existing groups within the School of Science are particularly encouraged. The appointee is eligible

to apply research grant foundation.

- (4) Additional ISP-related duties may include assisting with promotional activities, the recruitment of international students by visiting foreign countries, and similar activities that act to contribute to the growth and continued successful operation of the program.
- (5) The supervision of graduate and undergraduate research students is encouraged if the appointee is to be associated with a laboratory that is a member of the Graduate School of Science.

6. Application Criteria

- (1) Possess PhD in physics or a closely related discipline from an accredited university at the time of appointment.
- (2) Native/near-native English language ability (Japanese-proficiency not required).
- (3) Previous experience in teaching physics-related courses at the college/university level is highly desirable.
- (4) Proven track record of research excellence as evident through peer-reviewed academic journals, presentation at conferences, and the potential to be an effective mentor to research students.

7. Basic Salary

- (1) The basic salary will be determined in accordance with the regulations of Hokkaido University, with consideration for qualifications, work experience, and previous achievement.
- (2) Relocation allowances will be reimbursed. The cost of self-isolation for two weeks due to the COVID-19 will also be supported, if the appointee will come from outside of Japan.

8. Working hours, etc.

- Monday to Friday
- Discretionary work System (standard 8:30-17:00)
(The working hours for a day is deemed as 7 hours and 45 minutes.)
- Break time 45 minutes

9. Health insurance, etc.

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

10. Name of Recruiting Institution

Hokkaido University

11. Measures to prevent second-hand smoke

Smoking is prohibited on the premises except for specific outdoor smoking areas.

12. Start Date

March 16th 2021 (April 1st 2021 at the latest)

April 1st marks the start date of the new school year. Measures may need to be taken for successful applicants to self-isolate for the prior period to abide by COVID-19 related regulations.

13. Probation Period

3 months

14. Documents to be submitted

(1) Curriculum Vitae (max. 4 pages)

At minimum should include: photo, date of birth, nationality, current address, contact details (telephone number, e-mail address), education history for undergraduate and above, year and month of acquisition of degree diplomas and title of PhD thesis, other relevant qualifications and working experience.

(2) Research Accomplishments (max. 3 pages):

- a. Achievements: Categorized into academic papers in refereed journals, international conference proceedings and presentations, book publications, academic commentaries, reviews, talks at academic associations/societies, etc.
- b. Status of securing competitive research funding: categorized into Scientific Research Aid, Joint/Contract Research, Public Research funds, etc.
- c. Summary to-date of research achievements (max. 500 words).
- d. Other relevant information: affiliated associations and their activities, contributions to society, relevant awards, etc.

- (3) Educational Achievements (**max. 3 pages**). Clearly detailed achievements in teaching including, but not limited to, previous lecturing experience, conducting experiment-based classes at the college level, supervision/mentoring/teaching postgraduate students, and any other relevant educational achievements.
- (4) One copy of 3 of the applicants most important peer-reviewed papers. If the applicant is not the first author, then a clear statement of their explicit contribution to the paper should be included.
- (5) Research proposal upon appointment (**max. 500 words**). This should indicate a clear vision for the duration of the appointment, including how the applicant would both benefit and contribute to existing physics-based research at the University, contribute to the University's competitive grant portfolio, and plans for involving students in their research.
- (6) Statement of teaching plan/vision and/or philosophy, particularly in how the applicant would deliver the assigned physics courses (**max. 500 words**).
- (7) Two professional letters of recommendation, preferably from those who can attest to the applicant's teaching and research aptitude. These should be sent independently by the referees themselves the manner outlined in Section 11.

If necessary, candidates may be requested to provide additional documents throughout the review process. Following the initial document screening shortlisted candidates will be interviewed. Interviews are preliminary scheduled around the third week of January. For candidates located outside of Japan this will be done via teleconferencing software. Travel expenses for participation in interviews in person (e.g. if currently located in Japan) will not be reimbursed.

15. Submission deadline

For full consideration documents must arrive no later than:

January 11th 2021 (23:59 JST)

16. Submission procedures

Application documents should be submitted electronically to the Director of the Institute for Advancement of Higher Education:

E-mail: jinji@academic.hokudai.ac.jp

The title of the email from the applicant should read:

“Application for ISP Assistant Professor (name of applicant)”.

The title of the email from a referee should read:

“Reference for ISP Assistant Professor Applicant (name of applicant)”.

Once submitted documents will not be returned and would not be used for any other purposes than for recruitment by Hokkaido University.

17. Further inquiries

For queries regarding personnel matters:

Academic Affairs Planning Division

Academic Affairs Department

Hokkaido University

Kita 17, Nishi 8, Kita-ku, Sapporo Hokkaido 060-0817 Japan

E-mail: jinji@academic.hokudai.ac.jp

URL: <https://www.high.hokudai.ac.jp/>

For queries regarding research and teaching:

Prof. Atsushi Kawamoto

Department of Physics

Faculty of Science

Hokkaido University

Kita 10, Nishi 8, Kita-ku, Sapporo Hokkaido 060-0810 Japan

E-mail: atkawa@phys.sci.hokudai.ac.jp

18. Additional information

Hokkaido University: <https://www.global.hokudai.ac.jp/>

Integrated Science Program: <https://www.oia.hokudai.ac.jp/isp/>

School of Science: <https://www2.sci.hokudai.ac.jp/en>

Graduate School of Science: <https://www2.sci.hokudai.ac.jp/gs/en>

19. Applicant checklist:

- ☐ CV [free format]
- ☐ Research Accomplishments [3 pages]
- ☐ Educational Achievements [3 pages]
- ☐ Copies of 3 papers
- ☐ Research Proposal [500 words]
- ☐ Statement of teaching plans [3 pages]
- ☐ Two reference letters submitted independently