**○ Using the Research Facilities and Equipment of the Japan Atomic Energy Agency**

(Updated: Apr. 2024)

**1. Shared Use Program of Facilities**

The Japan Atomic Energy Agency (JAEA) has established the shared use program of facilities to allow external users to have access to its facilities and equipment. In coordination with the agency’s research division, this program offers the opportunities on a not-for-profit basis for external researchers to use the 11 advanced large-scale facilities and equipment designated for shared use among those possessed by JAEA.

**2. Eleven facilities designated for shared use**

The locations of the 11 facilities are listed below.

|  |  |  |
| --- | --- | --- |
| Nuclear Science Research Institute | 1  2  3  4 | JRR-3 (Japan Research Reactor-3) Tandem Accelerator  Reactor Fuel Examination Facility (RFEF)  Facility of Radiation Standards (FRS) |
| Oarai Research and Development Institute | 5  6 | Hot Laboratory  Experimental Fast Reactor Joyo |
| Harima office | 7 | Synchrotron Radiation Facility (SPring-8)  (JAEA’s contract beamlines and experimental equipment) |
| Tono Geoscience Center | 8 | Pelletron accelerator for radioactive age determination (JAEA-AMS-TONO) |
| Aomori Research and Development Center | 9 | Tandetron accelerator mass spectrometer  (JAEA-AMS-MUTSU) |
| Fukushima Research and Engineering Institute | 10 | Naraha Center for Remote Control Technology Development (NARREC) |
| Tsuruga Comprehensive Research and Development Center | 11 | Fukui Smart Decommissioning Technology Demonstration Base (Sumadeco) |

**3. How to use**

Information on how to use the facilities of JAEA is provided below.

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| --- | --- | --- | --- | --- |
| Classification of use \* | | | | |
| Research and development (R & D) projects | General projects | Intended for publication | General projects | Applications accepted on a fixed term basis |
| Applications accepted any time (in urgent cases only) |
| Competitive funding　projects  (Preferential use) | Applications accepted on a fixed term basis (prior consultation required) |
| Applications accepted any time (prior consultation required) |
| Not intended for public disclosure | General projects | Applications accepted on a fixed term basis |
| Applications accepted any time |
| Industrial application　Promotion projects | Applications accepted on a fixed term basis |
| Applications accepted any time |
| Priority projects (joint university programs, etc.) | | | |
| Non-R & D projects (manufacture of radio isotopes, silicon semiconductors, etc.) | | | | |

\* There is no usage category for the Naraha Center for Remote Control Technology Development.

(1) Fixed-term application of R & D general projects

(i)Submission of application

Applicants of R & D general projects should primarily consider filing application in the fixed time period. Applications for experiments to be performed in the next fiscal year will be accepted in November this year. The terms of approval will be valid within one fiscal year. However, for SPring-8, the approval will be valid for six months. In addition, applications will also be accepted in May for the same year.

The Competitive funding projects refer to those projects using the JAEA’s advanced facilities under the financial support of the Grant-in-Aid for Scientific Research or other public funding programs. If the application is approved, the will be priority price, as per the conditions for the priority projects in the List of Charges. Moreover, this category of projects will be given a priority.

This program is open for Industrial application promotion projects in order to bolster and enhance the use of the JAEA’s advanced facilities and equipment by private sector for the purpose of developing cutting-edge technologies. The results of the project will be exempt from public disclosure. The basic charge will be partially exempted, if the project meets the criteria listed in the List of Charges. For more information please check with the application guides and other documents.

Before making an application, please be sure to fully consult about the technical issues of the potential project with the staff members in charge of the facility and equipment of concern. The Technical Committee of the Shared Use Facility Council will review the prospective general projects intended for publication, and the decision regarding acceptance or rejection will be notified to the applicant.

Applications cannot be made on a fixed term basis for joint university projects and those based on direct contract with national or local governmental entities; they should be filed as priority projects, accepted at any time. Besides, applicants that have already filed an application for the use of the JAEA facility or equipment under the sponsorship of a university or other organizations should refrain from submitting an application under this program for approval of the use of the same facility or equipment.

(ii)Application for use

The applicants who are selected through the procedures of (i) must complete the Facility Use Application Form developed for each facility, and submit it to the contracting office of each facility. After a review of the document, the contracting office will issue a letter of acceptance. On exchange of the written application form and the letter of acceptance, the contract for use of the facility will come into effect, and the applicant will be entitled to use the facility based on the Term of Use of JAEA Facilities

For the flow of this procedure, please refer to "Procedure for Use of JAEA Facilities".

(2) Any time application of R & D general projects

While, as a rule, applications for the projects intended for publication will be accepted only in the fixed application period, they may be accepted in urgent situations. Competitive funding　projects whose technical feasibility has been confirmed by pre-application consultation with the facility and equipment staff members will be accepted preferentially. Before submitting the Facility Use Application Form, the applicant must file the Project Approval Form.

Applications of the projects not intended for public disclosure may be filed at any time. In this case, the submission of the Project Approval Form will not be necessary. Prior to application, applicants should consult with the staff members in charge of the facility and equipment about relevant technical feasibility; then they can directly apply to use the facility by submitting the Facility Use Application Form.

Projects applied outside the fixed application period may not be endorsed due to unavailability of the requested equipment; applicants are, therefore, urged to apply during the fixed application period, in which case they will be entitled to obtain access authorization earlier.

Applicants of a project not intended for public disclosure wishing to conclude a non-disclosure agreement are invited to consult with the contracting office staff.

(3) Applications of R & D priority projects and non-R & D projects

Applications of R & D priority projects and non-R & D projects are not to be received on a fixed term basis. Applicants of these projects will not be required to file the Project Approval Form. They can apply by submitting the Facility Use Application Form at any time, after completing in-depth consultation with the staff members about technical feasibility. Applicants of a non-R & D projects wishing to conclude a non-disclosure agreement are invited to contact the contracting office.

Priority projects, as used in this document, refer to the joint university projects and those based on direct contract with national or local governmental entities that will use the facilities and equipment of JAEA; these will be given a priority over other projects. The applicants of a priority project that relates to a joint university project must file their application with the contact office of the following organizations:

* Nuclear Facilities Collaborative Management Headquarters (Inter-University Laboratory for the Common Use of Nuclear Facilities), the University of Tokyo.

　　　　　　　http://www.tokai.t.u-tokyo.ac.jp/kaihoken/

* International Research Center for Nuclear Materials Science (Oarai), Tohoku University

<http://www.imr-oarai.jp/>

**4. Usage charge**

Users of the facility must pay the appropriate charge. The usage charge is as follows:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Usage charge (F) | = | (1) Handling fee  (H) | + | (2) Expenses related to operation of facility (A) | + | (3) Additional  expenses  (Z) | + | (4) Costs related to radioactive waste storage, treatment, and disposal (W) |

Here, the usage charge (F) is called "General charge".

The breakdown of the various usage charges is shown below. Please refer to the appropriate category of use.

However, regardless of following table, “General charge” is applied for applications from overseas (excluding projects intended for publication) and applications for the Hot Laboratory, “Basic charge” Is applied for applications for the Naraha Center for Remote Control Technology Development (There are partial exemption for some users).

Please note that the usage fees posted on the website may be revised in the future due to review of the expense ratio.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Classification of use | | | | Usage charge (F) | | | |
| (1) Handling fee per use (H) | (2) Expenses related to operation of facility (A) | (3) Additional expenses (Z) | (4) costs related to radioactive waste storage, treatment, and disposal (W) |
| R & D projects | General projects | Intended for publication | General projects | ¥13,300\* | basic charge | If extra expenses are incurred, additional expenses will be charged | If radioactive waste is generated while using the facility, costs relating to its storage, treatment and disposal will be charged. |
| Competitive funding　projects | Preferential charge |
| Not intended for public disclosure | General projects | General charge |
| Industrial application promotion projects | Partial exemption of General charge |
| Priority projects  (Joint university projects, etc.) | | | Preferential charge |
| Non-R & D projects | | | | General charge |

\* \900 for the use of the Naraha Center for Remote Control Technology Development.

(1) Handling fee

The handling fee of ¥13,300 (\900 for the Naraha Center for Remote Control Technology Development) per use will apply to all users.

(2) Expenses related to operation of facility

The expenses related to operation of facility have been determined by type of project and facility, Please check the List of Charges.

The "basic charge" means that expenses related to the operation of the facility (A), excluding the cost of consumables and waste disposal, are exempted. The "Preferential charge" is a fee that is added to the "basic charge" plus the cost of utilities and maintenance, which allows for priority use of the facility.

In addition, the partial exemption policy on projects intended for publication will be effective, only when the user submit the project report and make the results public within two years after the end of the facility use.

(3) Additional expenses

Additional expenses will be charged, when extra costs are incurred according to the request of the user. Whereas actual costs and overheads will need to be paid as a general rule, some costs have been predefined in the List of Charges. Please be reminded that the billing for the **OSL badges** will be made on a quarterly basis (a monthly if women).

Major additional costs include expenses for the following: equipment operation and handling services; technical assistance for the operation and manipulation of equipment, preparation of test samples, and experimental data analysis; use of facilities not covered by this program, transportation of test samples, and consumable supplies.

Concerning the fees for human services and technical assistance, the staff members in charge of the facility and equipment will explain how to operate the equipment and provide safety instructions at the start of the project without charge; however, the applicant will be charged for any additional support requested from JAEA staff. The amount of expenses will be determined based on the grade of the JAEA personnel and the actual time of services (see Direct Labor Cost Table). Please confirm with the facility and equipment staff beforehand, if there are any questions. These costs will be waived, if the report of a project intended for publication submitted after the end of the facility use, which credits the JAEA staff members as co-authors.

However, the costs necessary for the pre-treatment for the Tandetron accelerator mass spectrometer and the Pelletron accelerator for radioactive age determination will not be subject to exemption, because they do not relate to human services or technical assistance.

(4) Radioactive waste storage, treatment, and disposal expenses

As a general rule, radioactive waste generated by using the facilities (hereinafter referred to as the ‘contract-related waste’) should be promptly removed from the site, once the project is terminated. However, if the user does not possess the means to store such waste material, JAEA, in place of the user, will store or dispose of the contract-related waste.

For the costs related to the treatment and disposal of the contract-related waste, please refer to the List of Charges for the Treatment and Disposal of Radioactive Waste.

Besides, concerning the expenses for the processing and disposal of radioactive waste in the JRR-3 irradiation capsules, see the List of Charges for the Storage, Treatment, and Disposal of Radioactive Waste Produced by Capsule Irradiation.

**5. Submission of the project report and publication of results (limited to projects intended for publication)**

The User who uses the Facilities under a "project intended for publication" shall submit a project report to JAEA and publish research results. If the User has not submit a project report or publish research results by the deadline, the User shall pay the difference between the usage fee applied to a “project not intended for public disclosure” and the usage fee the user already paid.

(1) Project report

The project report must be submitted until 30 May of next fiscal year in which the User has used the facility (hereinafter referred to as "Facility Use Fiscal Year").

(2) Publication of Research Results

The deadline of publication is within 2 years from 1st April of the year following the Facility Use Fiscal Year.

Please publish by journal article or other methods (Scientific journal articles, Review articles, Proceedings, Monographs, Magazines, Industry journals, Company reports, Academic conferences, Symposia, Keynote presentations at international meetings, Oral presentations at academic settings, Prize-winning presentations, Press releases, Patent applications, etc.).

If the user discloses the results by journal article or other method, it should be clearly indicated in the publication that the research was conducted under the Shared Use Program of JAEA Facilities. The following is an example sentence:

　　 This work was performed under the shared use program of JAEA Facilities.

After publishing, please submit to the contracting office the Publication of the Results Notification Form and copies of the publication or other relevant materials as soon.

(3) The Project Report Form and the Results Notification Form

Please request to the contracting office.

**6. Application qualifications**

　The applicant must be a researcher or other personnel undertaking research at universities, colleges, public research institutions, private enterprises, and other research or academic entities. (Student cannot be an applicant.)

The applicant of industrial application promotion projects must be a researcher or other personnel undertaking research in private enterprise sector.

**7. Notes on use of SPring-8**

The projects intended for publication using JAEA’s SPring-8 contract beamline must be meet each requirements of JAEA and the Japan Synchrotron Radiation Research Institute (JASRI). For more detail of JASRI requirements, please confirm “Call for SPring-8 research proposal”

By the JASRI requirements, research results must be published within three years by refereed journal paper etc. (Proposal number must be specified), and registered in the "SPring-8 data base ", If these requirements are met within 2 years, it is treated that the JAEA requirements are also met.

In addition, the patent application at the SPring-8 results does not apply to public disclosure requirements of JASRI.

**8. Information on the facilities**

Please refer to the list of Accessible JAEA Facilities and Equipment.

**9. Inquiries**

Please direct inquiries related to the shared use of facilities and questions about applying to use them to the following contact point:

　renkei.shisetsu@jaea.go.jp

Intellectual Property and Industry-Academia Collaboration Section

Research and Development Promotion Department

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Questions concerning the joint university programs should be directed to the office of the relevant universities.