**SACLA Feasibility Study Program Application Template**

**You can use this template to draft your program application details and then copy and paste them into the online application form.**

**[PAGE 1: Basic Information]**

1. Title of Experiment <required> (70 word limit)

|  |
| --- |
|  |

2. Research Area and Research Method

2-1. Research Area <required>

- Main Area: Please select a Main Research Area. <required>

|  |  |
| --- | --- |
| Main Research Area |  |
| Select from the following <required> |
| □ | AMO (Atom, Molecular & Optical Science) |
| □ | BIO (Biology) |
| □ | CHM (Chemistry) |
| □ | HEDS (High Energy Density Science) |
| □ | IND (Industrial Applications) |
| □ | MAT (Materials Science) |
| □ | MI (Methods & Instrumentations) |
| □ | XOP (X-ray Optics) |
| □ | Others |

2-2 Related Area:

-Please select all research areas that are related to your research in addition to the Main Research Area.

|  |  |
| --- | --- |
| Related Research Areas |  |
| Multiple Choice Allowed |
| □ | AMO (Atom, Molecular & Optical Science) |
| □ | BIO (Biology) |
| □ | CHM (Chemistry) |
| □ | HEDS (High Energy Density Science) |
| □ | IND (Industrial Applications) |
| □ | MAT (Materials Science) |
| □ | MI (Methods & Instrumentations) |
| □ | XOP (X-ray Optics) |
| □ | Others |

3. Experiment Type

- Please select an experiment type<required>

|  |  |
| --- | --- |
| Select from the following <required> |  |
| □ | SFX (Serial Femtosecond Crystallography) |
| □ | High-power nanosecond laser experiment |

4. Unavailable Dates (50 word limit)
- Period covered: September 2024 – February 2024

|  |
| --- |
|  |

- Please note that we may not be able to fulfill your request.

- Please also check your collaborators’ schedule.

- Please describe the reason in detail if total “Unavailable Dates” are over 30 days.

 **[PAGE 2: Project Team Members]**

5. Project Team Members: User Card Number, Name, and Affiliation

|  |  |  |
| --- | --- | --- |
| User Card ID Number | Name | Institution/Company |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

- Project team members as well as project leaders are required to complete user registrations in advance. When you fill the form on the web, the member’s name and affiliation will automatically appear once you input the User Card ID Number. You can search the ID number of your team members from the User Information My Page only if they allow other users to search their registration information in the account settings of the User Registration page. If you cannot find your members’ information, please ask them to change their account settings (Log in to My Page > “Edit My Details” link in the top right-hand corner) to allow the search by other users. The project team members can be changed even after programs are approved for beamtime.

- If you are affiliated with an institution outside Japan, please have at least one local contact person that is affiliated with a Japanese institution participate in your experiment. If you cannot find one, please contact the Users Office (sacla.jasri@spring8.or.jp).

**[PAGE 3: Known Safety Hazards & Measures to Be Taken]**

6. Does your proposed research involve any of the following? <required>

-If yes, you will be required to submit [additional forms](https://user.spring8.or.jp/s/documents-sacla-e) before your experiment.

|  |  |
| --- | --- |
| (Check all that apply.) | Check Item |
| □ | High pressure gas cylinder from the outside of SPring-8/SACLA |
| □ | Radioisotope |
| □ | Radiation generator: installation, modification, change of purpose or specifications |
| □ | Internationally controlled materials (nuclear source/fuel materials) |
| □ | Installation of devices/equipment regulated by law:- High-pressure gas manufacturing plant- Local ventilation/gas supply and exhaust system- Crane |
| □ | Chemicals regulated by law:- Specific substances regulated by the "Act on the Prohibition of Chemical Weapons and Control of Specific Chemicals"- Specified poisonous substances regulated by the "Poisonous and Deleterious Substances Control Law"- Substances for which manufacturing is prohibited, asbestos, etc. under the "Industrial Safety and Health Law"- Narcotics, stimulant drugs, hemp (gum), opium, and their raw materials, psychotropic drugs, and no dangerous substances of 1/5 or more in quantity specified by the "Fire Service Act" |
| □ | Invasive alien species |
| □ | Specified risk materials (SRM) from cattle |
| □ | Prohibited imports regulated by the "Plant Protection Act" |
| □ | Recombinant DNA |
| □ | Human materials |
| □ | High-energy laser system (Class 4, Class 3B and Class 3R lasers specified by IEC 60825-1 standard) from the outside of SPring-8/SACLA |
| □ | Live animals (mammals, birds, or reptiles) |
| □ | Specific biological samples/biohazards (agents of biological origin that have the capacity to cause ill-effects in other organisms)- pathogenic microbes (incl. infectious nucleic acids, plasmids, prions), parasites, and the toxic substances, carcinogens, and allergens produced by them that can cause harm to humans, livestock, and farm/marine products. |
| □ | N/A |

7. Details of samples (Including substances prepared by SPring-8/SACLA as well as carry-in samples)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Substance\*1 | State/Figure\*2 | Qty & Unit (SI)\*3 | Hazards\*4 | Purpose of Use\*5 | Containment measure and disposal method | Prevention of Hazards | Risk Level\*6 | Remarks |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

\*1 Avoid abbreviations.

\*2 Capillary (powder), Cylinder (gas), Plate (crystal), metal foil, tablet, bulk, etc.

\*3 SI Unit.

\*4 Categorize the hazard of your sample as Poisonous Substances, Deleterious Substances, Specified Chemical Substances, Organic Solvents, Flammable/Explosive Substances, etc. These categories are based on Japanese legal regulations. You can refer the category and properties of your sample via links described in Section “Procedures to be followed in advance by principal investigators” in the following page.

(<http://www.spring8.or.jp/en/users/safety/form_procedure/chemistry#a-2>)

\*5 Measurement sample, Cleanser, Coolant, Tranquillizer, etc.

\*6 Risk assessment result. For details, see the following page (<https://sacla.xfel.jp/?p=10317&lang=en>). Choose “N/A” for chemical substances which are exempt from the regulation.

**[PAGE 4: Abstract]**

8. Abstract <required> (1200 word limit)

- Describe the background, purpose, significance, and originality. Please also be sure to provide the necessity to perform the proposed experiments under the SACLA Feasibility Study Program.

|  |
| --- |
|  |

**[PAGE 5: Experimental Details]**

9. Experimental details such as measurement method, layout of experimental equipment, detector (MPCCD single/dual/octal-sensor detector, Rayonix MX300-HS, for example), concentration of samples. Click [here](http://xfel.riken.jp/eng/users/index.html) to see a typical experimental setup. Please note that we may not be able to fulfill your request. <required> (1350 word limit)

|  |
| --- |
|  |

10. XFEL parameters.

- e.g. Photon energy (wavelength) (225 word limit)

- Please note that we may not be able to fulfill your request.

|  |
| --- |
|  |

11. Equipment that you will bring to SACLA.

|  |  |  |
| --- | --- | --- |
| Equipment | Specifications\* | Safety measures |
|  |  |  |
|  |  |  |
|  |  |  |

\* Voltage, Ampere, Pressure, Temperature, etc.

**[PAGE 8: Attachments]**

22. File Upload (up to 3 files). Acceptable file formats are JPEG (.jpg/.jpeg), GIF(.gif), PNG (.png) only.

Do not upload files without file extensions. Each image should be no larger than 1 MB in file size.

Fig. 1:

Fig. 2:

Fig. 3: