

# Call for Beamtime Application Guidelines the Synchrotron Radiation Beamline for Macromolecular Assemblies (SPring-8 BL44XU) for FY2025

Institute for Protein Research (IPR) is now accepting non-proprietary proposals for 2025 using the Beamline for Macromolecular Assemblies (SPring-8 BL44XU) operated by IPR.

## 1. Beamline for Macromolecular Assemblies (SPring-8 BL44XU)

This beamline (BL44XU) is specially designed for data collection of biological macromolecule assembly crystals, such as protein complexes, protein-nucleic acid complexes, and viruses. It uses an undulator as a light source. More details of the beamline are shown on the website.

(<http://www.protein.osaka-u.ac.jp/rcsf/supracryst/en/research/beamline/>)

## 2. Requirements

- Applicant must be a researcher who belongs to an academic organization.
- Proposals must be non-proprietary.

## 3. Research Period

1 year. From April 1, 2025 to March 31, 2026.

## 4. How to Apply

Required documents: Application Form (Original)

\* Application Form and Application Guidelines (this document) can be downloaded from the website.

(<http://www.protein.osaka-u.ac.jp/joint>)

Submission Deadline: December 2, 2024 (Mon.)

Send to: Project Team of Joint Usage / Research Center,  
Institute for Protein Research, Osaka University  
E-mail: [tanpakuken-kyoten@office.osaka-u.ac.jp](mailto:tanpakuken-kyoten@office.osaka-u.ac.jp)

## 5. Proposal Review

Proposals will be reviewed by the Panel on Joint Usage/Research, and the decision will be informed to the applicant in mid-March, 2025.

## 6. Report of Results

The users must submit an Experiment Summary Report within 60 days after the research term ends. They are also required to publish their research results in a refereed journal or in the SPring-8 Publications within 3 years after the research term ends. When you publish an academic paper based on the results obtained through this proposal, it is required that the users: 1) clearly state that they used this beamline as shown in the example below, 2) submit one reprint of the paper, 3) and register the paper in the SPring-8 Publications Database.

e.g., This work was performed using a synchrotron beamline BL44XU at SPring-8 under the Collaborative Research Program of Institute for Protein Research, Osaka University. The diffraction data were collected at the Osaka University beamline BL44XU at SPring-8 (Harima, Japan) (Proposal No. 2024AXXXX, 2024BXXXX, and 2025AXXXX).

## 7. Miscellaneous

1. Applications on the X-ray crystallography of large biological macromolecular assemblies are welcome. Preliminary crystallographic experiments are not necessarily to be done at the time of application. However, it is desirable to have at least started sample preparation or preliminary experiments for crystallization.
2. If any applicant wishes to apply for the Beamtime after the deadline, we may consider the application as an "urgent proposal." Please contact the address below.

## 8. Contact

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