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**JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH**

**(A DEEMED UNIVERSITY)**

**Jakkur Post, BANGALORE 560 064**

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**Training Programme on X-ray Synchrotron Training from Ph.D. students**

Applications are invited for the “PhD student short-term training program with hands-on experience in X-ray synchrotron techniques” using the X-ray Synchrotron facility at the Indian Beamline at Photon Factory, KEK, Japan. For details about the Beamline Project/Facility, visit the websites: <http://www.jncasr.ac.in> and <https://www.saha.ac.in/web/photon-factory-home>. The program will be supported from the project ‘Indian Beamline at Photon Factory, KEK, Tsukuba Phase III’ under the Nano and Advanced Materials Division (NAMD), Department of Science and Technology (DST), Government of India.

**Eligibility, term, and other details**

The applicant should be a Ph.D. student of an Indian institution in the stream of Science or Engineering (preferably in the areas of Physics, Chemistry, or Materials Science) and interested in pursuing the Ph.D. thesis program involving research experience in X-ray scattering techniques. Students should have a good academic record and interest in Nanoscience and Technology and should be within one year of submitting his/her thesis.

The selected students will work with the local in-charge of the Indian beamline, and will also help users of the Indian beamline in addition to the research program related to his/her thesis involving the activities in the beamline. The selected students can also have their own beamtime to carry out research activities and will be provided opportunities to learn other scattering techniques with scientists at KEK, as well as researchers from India during their stay at KEK.

The term of the training is three months (maximum), depending on the availability of X-ray beams at the Indian Beamline, Photon Factory, KEK. A panel of students will be prepared during the selection process and will be stationed in the beamline, as per the availability of slots in the beamline and other requirements. A student can avail of this opportunity only once during the PhD thesis tenure.

**Financials**

Selected students will be reimbursed travel cost as per Govt. norms and will be paid 100$ Daily Allowance and accommodation charges subject to actuals up to a maximum of 50$ during the period of stay in KEK.

**Mode of selection**

The candidates will be selected based on the recommendation of a Selection Committee after the scrutiny of their biodata, research proposal, and performance in the interview. Applicants' academic and research plan in X-ray synchrotron-related experiments, and the merit of the proposed research will be the key factors for consideration.

**Mode of application**

Candidates may submit their application along with the updated biodata, list of publications, if any, copies of all the available certificates (B.Sc., M.Sc., M.Tech, etc.), one-page plan for the work of the Ph.D. thesis using x-ray synchrotron techniques. The candidate should request a recommendation from the Ph.D. supervisor directly to the email ID given below, declaring that if selected, the student can spend approximately 3 months at KEK as part of this training program.

Interested candidates can send their applications along with the enclosures in the pdf form to the Project Coordinator of the project: Prof. Sebastian C Peter, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, India to the e-mail: india-japan@jncasr.ac.in.

The last date for receiving applications is 20th September, 2025.