



**JAWAHARLAL NEHRU CENTRE FOR
ADVANCED SCIENTIFIC RESEARCH**
(A DEEMED UNIVERSITY)
Jakkur Post, BANGALORE 560 064

Advt. No. 07/2017-

Date: 04.05.2017

**Advertisement for Postdoctoral Fellowship and short-term Students Visiting Fellowship
(in Neutron and MuSR Science) under Indo-ISIS project to visit
Rutherford Appleton Laboratory (RAL), UK**

Applications are invited for the award of **Postdoctoral Fellowship and students Visiting Fellowship** for pursuing Materials Research in frontier areas particularly involving Nano-materials using neutron and muon facilities at Rutherford Appleton Laboratory (RAL), UK.

The fellowships are awarded under the Mission on Nano Science & Technology (Nano Mission) of the Department of Science & Technology, Government of India.

ELIGIBILITY and OTHER DETAILS:

Postdoctoral Fellowship: The applicants should either hold a Ph.D. degree in Science or Engineering or should have submitted the Ph.D. thesis involving some research experience in neutron/MuSR with a very good academic record and have interests in Nano Science and Technology. They should be below 40 years of age and have evident capabilities in the relevant areas.

The selected candidate(s) will be engaged in a research program that involves research in the areas of neutron and or muon and placed in JNCASR, Bangalore and will be provided opportunities to collaborate with other researchers in India. During the entire beam time (expected to be around six months) in a year, the candidate will work at the ISIS facility of RAL, UK. During this stay at ISIS, in addition to his/her work, the candidate will be trained in a wide range of beamlines available to Indian researchers. The candidate will interact closely with the other users from India and help them in collecting and analyzing data.

The term of the fellowship is for two years and depending on the performance of the candidate the fellowship may be extended for the third year. The fellowship carries a consolidated monthly stipend of Rs.55,000/- when the candidate is posted in India and £2000 per month (inclusive of subsistence allowance) when stationed at ISIS-RAL, UK. For those who have submitted Ph.D. thesis, but not awarded will be paid a stipend and allowance equivalent to the Student Visitor until the award of the Ph.D. degree.

Short-Term Student Fellowships: Ph.D. students who are currently engaged in materials research that require the use of neutron and muon based techniques will be eligible for this fellowship. Applicants should have completed two years of their Ph.D. work in the area related to neutron/MuSR. The selected candidate will be staying at ISIS during the entire duration of beamtime in a year (6 months) and use beamlines of Indian access for own use and help other users of Indian researchers.

The selected candidate(s) will get an additional fellowship of Rs.20,000/- per month for one year. In addition, during the stay at ISIS, they will be paid £1200 per month as subsistence allowance.

MODE OF SELECTION

The candidates will be selected based on the recommendations of a Selection Committee after the scrutiny of their bio-data, research proposal, and performance in the interview. Applicant's academic and research record and the merit of the proposed research will be the key factors for consideration of the application

MODE OF APPLICATION

For Post-doctoral Fellowship: Candidates may submit their application along with bio-data, a list of publications (attach reprints of 2 important papers), copies of certificates (B.Sc., M.Sc., M.Tech, Ph.D.), one-page synopsis of the Ph.D. thesis, a summary of research carried out. The candidate should request three referees to send their confidential evaluation directly to the address given below.

For Short-term Students Visiting Fellowship: Candidates should submit their application along with bio-data and a short write up (1000 words) on the proposed research which must be compatible with the ongoing research of the proposed supervisor. **A letter from the Ph.D. Supervisor must be attached justifying the need of neutron/muon based techniques in thesis work.**

In both cases, a declaration stating that if selected for the fellowship, the candidate will complete the tenure of the fellowship should also be furnished.

The fellowships are expected to start from September 01, 2017

Applications along with **the enclosures should be in sent in the pdf form** with subject line "Application for DST PDF/Short-Term Student Visitor (Neutron and Muon facilities)" can be sent through e-mail to india-ral@jncasr.ac.in.

The last date for receiving applications is 30th June 2017.