



**Jawaharlal Nehru Centre
for Advanced Scientific Research**
(A Deemed University) Jakkur, Bengaluru 560 064

DST Postdoctoral Fellowship in Nano Science and Technology

Applications are invited for the award of 'DST-Postdoctoral Fellowship in Nano Science and Technology' for pursuing research in frontier areas of Nano Science and Technology. This highly prestigious fellowship is tenable in research institutions/universities including non-profit R&D institutions anywhere in India. The fellowships are awarded under the Mission on Nano Science and Technology (Nano Mission) of the Department of Science and Technology, Government of India.

Detailed information regarding eligibility criteria, fellowships and the application format are available at:

www.jncasr.ac.in/opportunities_single.php?get_vacancies_id=103

**Ministry of Earth Sciences (MoES)
Government of India**

Call for Proposals – National Radar Meteorology Programme (NARM)

Research proposals are invited on 'National Radar Meteorology Programme (NARM)' from universities, research/academic institutions in the country for funding for focused research in the specific areas listed below under the Project Appraisal and Monitoring Committee-Atmospheric Sciences (PAMC-AS) of MoES.

- Radar derived real-time rainfall estimates for flood forecasting
- Modelling Quantitative Precipitation Estimation (QPE) errors
- Mesoscale and severe weather analysis using DWR data which will include initiation and dissipation of thunderstorms
- Climatology of cloud clusters based on radar data
- Nowcasting methods using DWR data
- Vertical structure of clouds and in turn deriving latent heating profiles during monsoon season
- Convective and stratiform precipitation fraction in different regions
- Analysis of polarimetric radar observations for better understanding on microphysics of precipitation. Integration of radar and lightning network datasets for thunderstorm studies
- Assimilation of radar observations in high resolution numerical models

It is preferable that the model development activities be carried out using the WRF model or the regional version of the Unified Model. MoES will provide data and support in using the WRF and Regional Unified Model.

The research proposals with the details of investigators and budget may be submitted to the Ministry of Earth Sciences for further consideration. More details of the format of the proposal are given at <http://www.moes.gov.in/content/project-management-system>. The last date of receiving complete project proposals is **31 January 2020**. For more details, please contact **Dr R. S. Mahes Kumar** (e-mail: mahesh.rs@gov.in).