

बसु बिज्ञान मन्दिर
BOSE INSTITUTE

(भारत सरकार के विज्ञान और प्रौद्योगिकी
मंत्रालय द्वारा वित्तपोषित सोसाइटी)
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ADVT. NO. S/ESS/41/2017-18

A Walk-in-Interview will be held on **February 09, 2018** at **11:30 A.M.** in the Centenary Campus of Bose Institute, P-1/12, C.I.T. Scheme VII-M, Kolkata 700054 for **one (01)** post of **Junior Research Fellow** in the Ministry of Environment, Forest and Climate Change (**MoEFCC**), Govt. of India, sponsored project entitled, "National Carbonaceous Aerosol Programme (NCAP) working Group III" under the guidance of **Dr. Abhijit Chatterjee**, Environmental Science Section. The project is tenable upto 28.06.22. Details of qualification, fellowship, age etc. are as follows:

Essential Qualifications : M.Sc. in Environmental Science / Chemistry / Atmospheric Sciences / Meteorology a from recognised University / Institution with NET / GATE / JEST qualified.

Desirable Qualifications : Good knowledge in the field of atmospheric chemistry/physics, air quality, aerosols etc., computer usage and software packages. Special preference will be given to those who have experience in air pollution and air quality monitoring and analytical instruments. The fellow will mainly be engaged in research activities to be carried out under this project at the Darjeeling campus of Bose Institute

Fellowship : Rs. 25,000/- p.m., plus 30% HRA.

Age : Below 28 years as on the day on which the application is made.
(relaxable in case of SC/ST/OBC/Women candidates as per rules).

Duration : Initially for two years as JRF and would be upgraded to SRF based on performance upto the tenure of the project

Brief description of the project :

The project will involve in finding sources of carbonaceous aerosols with seasonal and spatial resolution. Receptor modelling approaches using aerosol chemical species concentrations and meteorological parameters as inputs will be used toward this end. This proposal will involve operation of a regionally representative sampling site, Darjeeling (27⁰⁰1'N, 88⁰⁰15'E, 2200 m asl), a high altitude station at eastern Himalaya using specified criteria. The specific objectives of the project are the identification of a regionally representative location for particle sampling for black carbon source apportionment, analysis of seasonal variations in source contributions to ultrafine aerosols as related to meteorology (using trajectory analysis and trajectory based receptor models) and emissions (from emissions inventory), studies on the role of carbonaceous aerosols as cloud condensation nuclei and their effect and interaction with precipitation; studies on the effect on fine mode aerosols and its carbonaceous components on atmospheric radiative forcing and heating rate over high altitude Himalayan station, Darjeeling.

Interested and eligible candidates may appear before the Selection Committee with typed application addressed to the **Sr. Prof. & In-Charge, Registrar's Office, Bose Institute, P-1/12, C.I.T. Scheme VII-M, Kankurgachi, Kolkata – 700 054** along with Bio-data giving details of qualification i.e. examination passed, year, division, percentage of marks from Secondary onwards with attested copies of Certificates, Mark-sheets and testimonials. The candidates should also bring original mark-sheets, certificates, testimonials at the time on Interviews. No TA/DA is admissible for appearing at the Interview.

Sr. Prof. & In-Charge.
Registrar's Office