

बसु बिज्ञान मन्दिर
BOSE INSTITUTE

(भारत सरकार के विज्ञान और प्रौद्योगिकी
मंत्रालय द्वारा वित्तपोषित सोसाइटी)
(A Society for Scientific Research financed by
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ADVT. NO. S/ESS/27/2017-18

Bose Institute, Kolkata, invites application from the Indian Citizens for the following positions in the MoEFCC 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 28.06.2022. Details of qualification, fellowship/salary, age etc. are as follows:

1. One position of Junior Research Fellow

Essential Qualifications : M.Sc. in Environmental Science / Chemistry / Atmospheric Sciences / Meteorology 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

2. One position of Project Assistant

Essential Qualifications : M.Sc. (Chemistry / Atmospheric Science / Environmental Science) / B.Sc. (Chemistry / Environmental Science) / B.Tech/B.E. from a recognised University / Institution with good percentage of marks and with two (02) years of experience in the field related to atmospheric/environmental science.

Desirable Qualification : Preference will be given to those who have experience in air pollution and air quality monitoring studies.

: 2 :

Salary : Rs. 21,000/- p.m., plus 30% HRA with the increment of Rs. 2,500/- per year

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 one year and would be extended for another two years based on the performance.

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, 88⁰15E, 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 effect and interaction with precipitation; studies on the effect of 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 apply on plain paper quoting "Advertisement No." and "Application for the post of JRF/PA for NCAP" on the envelop as well as application with complete Bio-data giving e-mail ID / Phone No. and details of qualification i.e. examination passed, year, division, percentage of marks from Secondary onwards with Attested copies of testimonials 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** on or before October 31, 2017.

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