

**बसु बिज्ञान मन्दिर**  
**BOSE INSTITUTE**  
 (भारत सरकार के विज्ञान और प्रौद्योगिकी  
 मंत्रालय द्वारा वित्तपोषित सोसाइटी)  
 (A Society for Scientific Research financed by  
 the Ministry of Science & Technology, Govt. of India)

**ADVT. NO. BI/ INTRAMURAL PROJECT /18/2019-20**

A Walk-in-Interview will be held on **22<sup>nd</sup> November, 2019** at **11:00 a.m.** in the Committee Room, Centenary Campus, Bose Institute, P-1/12, C.I.T. Scheme VII-M, Kolkata 700 054 for the following positions for **intramural projects** as mentioned below. **All the positions are tenable upto 31.03.2020.**

**Details of essential qualification, age & emoluments are as follows :**

S. N	Manpower Position	Essential Qualifications	*Upper Age limit (years)	Monthly Emoluments (Rs.)
1	<b>Project Associate I</b>	Master's Degree in Natural or Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent	35	31,000/- + HRA
2	<b>Project Associate II</b>	(i) Master's Degree in Natural or Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent; and  (ii) 2 years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific activities and services	35	35,000/- + HRA
3	<b>Senior Project Associate</b>	(i) Master's Degree in Natural or Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent; and  (ii) Four years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific activities and services OR Doctoral Degree in Science / Engineering / Technology / Pharma / MD / MS from a recognized University or equivalent	40	42,000/- + HRA

\* Relaxation of age in case of SC/ST/OBC/Women candidates will be as per Govt. rules.

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**INTRAMURAL PROJECTS :**

**A. Senior Project Associate (1)** in the project “Proline-mediated structural and dynamic effects on folded and unfolded proteins ” under **Prof. Gautam Basu**, Department of Biophysics.

**Desirable Qualifications:** Expertise in NMR and Structural Biology

**B. Senior Project Associate (1)** in the project “Comprehensive study of urban heat island condition (UHI), its response during heat wave conditions and interdependence on local climatic variability over Kolkata urban agglomeration using surface and satellite observations and numerical simulations using WRF coupled with Urban Canopy Model (UCP) ” under **Prof. Sanjay K. Ghosh**, Department of Physics

**Desirable Qualifications:** Expertise in Atmospheric Science instrumentation and computation

**C. Senior Project Associate (1)** in the project “Identifying the regulon of sigma factors and transcription factors of *M. tuberculosis* using SELEX ” under **Dr. Jayanta Mukhopadhyay**, Department of Chemistry.

**Desirable Qualifications:** Ph.D with two-year experience in the field of Molecular Biology.

**D. Project Associate-I (1)** in the project “Deciphering the roles of the three different paralogues of the ESCRT subunit Vps4 of *Giardia lamblia*” under **Prof.. Srimonti Sarkar**, Department of Biochemistry.

**Desirable Qualifications:** Expertise in performing immunofluorescence and expressing proteins in *E. coli*, *S. cerevisiae* and *G. lamblia*

**E. Project Associate I (1)** in the project “Leggett-Garg Inequality with POVMs ” under **Prof. Somshubhro Banydopadhyay**, Department of Physics

**Desirable Qualifications:** Experience in working on problems in Foundations of Quantum Mechanics.

**F. Project Associate I (2)** in the project “Role Of Conserved Charges In Determining The Freeze-out Hypersurface In Heavy-ion Collision Experiments” under **Prof. Rajarshi Ray**, Department of Physics.

**Desirable Qualifications:** Expertise in hadron multiplicity analysis in Heavy-ion Collision Experiments.

**G. Project Associate I (1)** in the project “Biosphere and anthroposphere contributions to organic and brown carbon aerosols over high altitude Himalayan and tropical coastal mangrove ecosystems and eastern India: efficiencies in cloud droplet formation and sunlight absorption in the context of regional climate change” under **Dr. Abhijit Chatterjee**, Environmental Science Section.

**Desirable Qualifications:** MSc in Atmospheric Science / Environmental Science and exposure in aerosol characterizations

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H. **Project Associate II (1)** in the project “Identifying the regulon of sigma factors and transcription factors of *M. tuberculosis* using SELEX ” under **Dr. Jayanta Mukhopadhyay**, Department of Chemistry.

**Desirable Qualifications:** MSc. with four year experience on Bacteriology.

I. **Project Associate II (1)** in the project “Identifications of the regions and residues involved in the interaction between a staphylococcal sigma factor and an anti-sigma factor: Implications in drug discovery” under **Prof. Subrata Sau**, Department of Biochemistry.

**Desirable Qualifications:** Expertise in gene cloning, mutant construction, handling *Staphylococcus aureus*, protein purification, and protein unfolding-refolding

J. **Project Associate II (1)** in the project ““Structural Analysis of Amyloid-beta(A $\beta$ 40/42) Misfolding in Nanodisc and Designing Inhibitors for Alzheimer Plaque Reduction ” under **Dr. Anirban Bhunia**, Department of Biophysics

**Desirable Qualifications:** Expertise in amyloid, membrane and Structural Biology.

K. **Project Associate II (1)** in the project “Identifying the role of Praja1 ubiquitin ligase in regulating the homeostasis of PolyQ proteins associated with neurodegenerative disorders ” under **Dr. Atin K. Mandal**, Division of Molecular Medicine.

**Desirable Qualifications:** Expertise in handling bacteria, yeast and mammalian cell culture is essential, prior experience working with misfolded protein in mammalian cell is preferable.

L. **Project Associate II (1)** in the project “Addressing information transfer in biochemical networks” under **Dr. Suman K. Banik**, Department of Chemistry.

**Desirable Qualifications:** Expertise in information theory and stochastic processes.

M. **Project Associate II (1)** in the project “Characterization of assimilation pathway of aromatic nitriles in *Burkholderia* sp. Strain BC1 and exploration of its catabolic operon(s) to develop nitrile-detoxifying biocatalyst and nitrile-sensing bioreporter strain” under **Prof. Tapan K. Dutta**, Department of Microbiology.

**Desirable Qualifications:** Experiences in the field of molecular microbiology.

Eligible and interested candidates may appear before the Selection Committee with a typed application addressed to the **Registrar(Officiating), Bose Institute, P-1/12, C.I.T. Scheme VII-M, Kankurgachi, Kolkata - 700054** along with complete Bio-data giving details of qualification i.e. examination passed, year, division, percentage of marks from Secondary onwards and stating the area of research experience with self attested copies of Certificates, Mark-sheets. Candidates should also bring original mark-sheets, certificates, testimonials etc. at the time of interview. No TA/DA is admissible for appearing at the interview.

**REGISTRAR (OFFICIATING)**