

बसु विज्ञान 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/CSIR-UGC-DST NET JRF/32/2018-19

A Counselling cum Walk-in-Interview will be held on **12th December, 2018** at 10.30 a.m. onwards in the **Committee Room, Centenary Campus of Bose Institute, Kankurgachi, P-1/12 CIT Scheme VII M, Kolkata – 700 054** for the candidates who have already secured a Junior Research Fellowship (JRF) from a funding agency through any national level test and are willing to join Bose Institute work in any of the fields of research as listed in Annexure-I. The details are as the follows:

Essential Qualification: A good M.Sc. degree in the relevant field(s) as listed in the Annexure-I and a valid award of JRF through NET (CSIR/UGC-NET, DBT-NET etc.) or its equivalent national level examinations, including DST-INSPIRE Fellowships which the candidate is yet to activate.

Fellowship: As admissible as per CSIR, UGC and DST rules.

Age Limit : Below 28 years as on the day on which the application is made
(relaxable in case of SC/ST/OBC/WOMEN candidates only, as per rule).

Eligible and Interested candidates may appear before the Interview-Committee (date, time and venue mentioned above) with a typed application addressed to the Acting Registrar, Bose Institute, along with the complete Bio-data giving details of qualification i.e. examination passed, year, division, percentage of Marks from Secondary onwards. The candidates should also bring original mark-sheets, certificates, testimonials at the time of interview. No TA/DA is admissible for appearing at the Interview. **The candidates are advised to go through the list of research fields given in Annexure-I and to specify in their application the field(s) (maximum 3 fields, along with serial no.) of their matching interest and background.**

For any query please contact office of the Dean, Students' affairs at dean_office@jbose.ac.in

Acting Registrar

Annexure-I

Serial no.	Field of Research	Involves Subjects/Methodologies	Suitable for the students from the fields	Number of Open Positions
1	Atmospheric Physics	Basic Physics / Aerosol-Cloud-Precipitation Interaction / Remote Sensing Techniques	Physics, Atmospheric /Environmental Sciences, Computer Science, Marine Science, Applied Physics-Eng. (M. Tech Students), Chemistry, Math	1
2	Atmosphere- Marine Science	Basic Physics /Atmosphere-Ocean Interaction/Oceanography and Marine Aerosols/Remote Sensing Techniques	Physics, Life Science, Atmospheric /Environmental Sciences, Computer Science, Marine Science, Chemistry	1
3	Relativistic Heavy Ion Collisions	Nuclear Physics, Particle Physics, Quantum Mechanics, Numerical techniques, Programming language (C++)	Physics	1
4	Complex systems and Interdisciplinary statistical physics	Statistical physics / networks / game theory / machine learning / quantum physics	Physics, Applied Mathematics, Statistics	1
5	Atmospheric Chemistry and Physics	Environmental chemistry, Chemistry of atmospheric particulate matter and trace gases, Atmospheric radiation, physical and chemical properties of clouds and precipitation, meteorological parameters	Atmospheric Science / Environmental Science	2
6	Structural Biology of Nucleic acids	Chemistry, Biochemistry, NMR, Molecular Biology	Chemistry, Biochemistry, Molecular Biology	1
7	Computational Structural Biology (Modeling, Simulation and Design)	Chemistry, Elementary Biochemistry, Biophysics, Statistical analysis, Computer simulations	Chemistry, Biophysics, Biochemistry, Physics	1
8	Computational Biology	Big data analysis, Machine learning approaches, Biological Networks.	Chemistry, Computer Science, Biotechnology, Biophysics	1
9	Structural Biology	Structure prediction, Drug designing, Molecular Dynamics Simulations, Biophysical techniques.	Chemistry, Biophysics	1
10	Structural Biology, Biochemistry	Basics of Chemistry/Physics, X-ray crystallography /cryo-EM, Biochemical and Biophysical Techniques	Chemistry, Physics, Biochemistry, Biophysics, Biotechnology	1

11	Systems Biology and Biophysics	Basic microbiology and basic mathematics	Any field of biological, chemical or physical sciences	1
12	Systems Biology/Computational Biology/Biological Physics	Physical Chemistry, Statistical Physics, Basics of Molecular Biology	Physical Chemistry, Physics	1
13	Cell Biology	Membrane trafficking, parasite biology, microscopy, comparative genomics	Biochemistry, Botany, Microbiology, Zoology	1