



S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES
BLOCK-JD, SECTOR-III, SALT LAKE CITY, KOLKATA-700106

MIDTERM ADMISSION, A.Y.: 2020-21

Ph.D. Programmes in Physical, Chemical & Biological Sciences

Academic Year: 2020-2021

The S.N. Bose National Centre for Basic Sciences invites applications with consistently good academic record (First Division/Class) to apply for admission, A.Y: 2020-21 into the Ph.D. Programme in Physical, Chemical & Biological Sciences. The applicants are expected to be motivated to make a career in Research. The programme is fully residential and the students are offered on-campus accommodations and boarding facilities.

The students, after registering with a Research Supervisor, have to undertake a prescribed Course Work Programme as per UGC rule. The details of the admission are furnished below:

ADMISSION CRITERIA

A) Department of Astrophysics & Cosmology (AC)

Focused Research Areas for Admission: *Cosmology, Quantum Information Theory, Observational Astronomy & Instrumentation, NOVA and Variable Star*

B) Department of Theoretical Sciences (TS)

Focused Research Areas for Admission: *Statistical Physics, Biological Physics, Non Equilibrium Statistical Physics, Fluctuation Relations and Critical Phenomena*

Basic qualification: Masters in Science/Technology with First Class/Division i.e., minimum 60% (55% for SC/ST/OBC (non-creamy layer)/EWS/Differently abled candidates) in Physics and Applied Mathematics.

C) Department of Condensed Matter Physics and Material Sciences (CMP&MS)

Focused Research Areas for Admission: *Physics of Materials, Theoretical and Computational Condensed Matter Physics, Electronic Structure*

Basic qualification: Masters in Science/Technology with First Class/Division i.e., minimum 60% (55% for SC/ST/OBC(non-creamy layer)/EWS/Differently abled candidates) in Physics, Chemistry, Applied Mathematics, Engineering Physics, Electronics, Nanotechnology.

Further Qualifications required in addition to (A,B,C):

NET–CSIR-NET-JRF(June/Dec 2019, June/Dec 2020) and UGC-NET-JRF (June/Dec 2018, 2019, 2020) with valid award letter till 31.06.2021.

D) Department of Chemical, Biological and Macro Molecular Sciences (CBMS)

Focused Research Areas for Admission: *Experimental Biophysical Chemistry, Laser Spectroscopy, Biomedical Optics, Physical Chemistry, Theoretical & Computational Chemistry*

Basic Qualification: Masters in Science/Technology with First Class/Division i.e., minimum 60% (55% for SC/ST/OBC(non-creamy layer)/EWS/Differently able candidates) in the following subjects:

Physics, Chemistry, Applied Mathematics, Biophysics, Biochemistry, Nanotechnology, Biotechnology, Engineering Physics, Bio-informatics, Chemical Engineering, Electronics, Applied Optics & Photonics, Applied Physics, Radio Physics & Electronics, Polymer Science & Technology.

Further Qualifications required in addition to (D):

NET–CSIR-NET-JRF(June/Dec2019, June/Dec 2020) and UGC-NET-JRF (June/Dec 2018, 2019,2020) with valid award letter till 31.06.2021.

Date of Interview for AC, TS, CMP&MS, CBMS Dept.: **7th April, 2021 (Wednesday)**

Age Limit: None. However, the last qualifying University examination (Masters in Science /Technology) should have been taken not earlier than **2019**.

Fellowship: As per GOI rule.

Tuition Fee: Rs. 12,000/- each year is payable in two equal installments (Semester wise) at the beginning of the Autumn and Spring Semester.

Application Fee: There is a non refundable application fee of Rs. 500/- for General category candidates & Rs. 250/- for reserved categories (including Women). The fee to be paid through NEFT / RTGS Mode only.

The account details are as follows:

Name of the Account Holder : S. N. Bose National Centre for Basic Sciences
Bank Account Number : **089302000000220**
Bank Name and Branch : Indian Overseas Bank, Salt Lake City Branch
Account Type : Current Account
IFS Code : **IOBA0000893**

Online Application: Starts on **13.03.2021** & Closes on **28.03 2021**

Only online applications will be accepted. Please log on to <http://www.bose.res.in> for further details. In matters of admission, the decision of the Director of the Centre is final and binding.

For more details please visit <http://www.bose.res.in> or <http://newweb.bose.res.in/AcademicProgrammes/Admission.jsp>

For any academic/official query, please write to: admission@bose.res.in

For any technical query, please write to: admission-help@bose.res.in

DEAN (ACADEMIC PROGRAMME)

12th March, 2021

About The Centre:

The Centre is a premier autonomous research institute under the Department of Science and Technology, Government of India. In addition, the Centre receives extramural funding from various funding agencies of India and abroad for its different research programmes. The Centre has extensive collaborative programmes with other premier institutions in India and abroad through bi-lateral exchanges in which the PhD research scholars take active part. The Centre is fully equipped with the state-of-the art infrastructure (experimental and computational) including a digital library for advanced research in chosen areas of Physical, Chemical, Biological and Mathematical Sciences. The research programme in biological sciences focuses on the areas of overlap with chemical and biophysical problems. Students joining the centre get contingency grants to meet research contingency expenses that include expenses for attending conferences and training programmes in India. The students also get generous support to attend International Conferences outside India. The Alumni of the Centre have gone on to work in academic and research sectors in India and abroad. The Centre offers an excellent atmosphere for academic development of students.

For research profiles of the members of the Faculty and for the facilities available, for more details please visit <http://www.bose.res.in>