



NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHUBANESWAR

ADVERTISEMENT FOR ADMISSION INTO INTEGRATED MSc-PhD PROGRAMME IN SCHOOL OF CHEMICAL SCIENCES (SCS), NISER

The School of Chemical Sciences, NISER, invites online applications from motivated undergraduate students for admission to the Integrated MSc-PhD Programme in Chemistry.

ELIGIBILITY

Candidates possessing a minimum of First class in Bachelor's degree in Chemical Sciences or an equivalent degree with Chemistry as one of the main subjects from a recognized University are eligible to apply.

Candidates who are appearing for their Final Examination for Bachelor's Degree can also apply, provided they submit an undertaking that they will submit the Qualifying degree certificates by the time of the Interview.

The candidate has to qualify in the **JAM 2022** examination. The shortlisting will be based on **JAM 2022 Mark**, followed by a test/interview for the final selection of candidates.

Applications will be accepted online only.

IMPORTANT DATES

Date of Activation of Online Application:	9th May 2022
Last Date of Online Application:	31st May 2022
Tentative Date of Announcement of Shortlist:	06th -10th June 2022
Date of Test/Interview:	29th and 30th June 2022

Major Research Areas

1. Inorganic Chemistry:

- Contracted and Expanded Carbaporphyrinoids and its Calixphyrin analogs
- Organometallic Chemistry and Catalysis
- Main Group Organometallics and Inorganic Synthesis
- Sustainable Catalytic Development by Transition Metal Catalysts
- Boron based Fluorescent Materials as OLEDs, Sensors and NLO
- Multifunctional Inorganic Materials: An Innovative Approach towards Sustainable & Renewable Energy
- Stimuli-responsive Materials and Chemistry in Confined Spaces

2. Organic Chemistry:

- Visible Light Photocatalysis
- Bioorganic Chemistry and Organic Synthesis
- Synthesis and Biochemical Evaluation of Gene-Based (DNA/RNA)Therapeutic Drug Candidates
- Benzoheterocycles& their Applications
- Homogenous and heterogenous Catalysis

3. Physical Chemistry:

- Nanostructured Materials for Energy Conversion and Storage
- UltrafastLaser Spectroscopy and Instrumentation
- Fluorescence Spectroscopy and Microscopy Studies on Nanostructuredmaterials
- Synthesis, Engineering and Applications of Porous Framework Materials
- Mechanisms and Dynamics of Chemical Reactions
- Computational Soft Condensed Matter
- NMR & MRI Methods Development

All candidates called for test/Interview will be paid to and fro single second sleeper class railway or bus fare by the shortest route from their place of residence to the Institute. They have to produce evidence (railway / bus ticket), a copy of their call letter and bank details in support of their claim. The details of the programme are available on the School of Chemical Sciences, NISER website.

https://www.niser.ac.in/scs/sites/default/files/pdf/Int-MSc-PhD-Programme_SCS-NISER_2022.pdf



For any further information, please contact:

scsoffice@niser.ac.in and/or **cpscs@niser.ac.in**

Dean, Academic Affairs