



School of Natural Sciences

Department of Chemistry

Announcement of Ph.D. Admissions: Monsoon 2022

The Department of Chemistry in the School of Natural Sciences at Shiv Nadar University (SNU) invites applications for admission in the Ph.D. program starting **August 2022**.

Opportunities for research in chemistry at SNU are available in the following broad areas:

- Bio-inorganic Chemistry
- Catalysis
- Chemical Biology
- Chemical & Biological Crystallography
- Computational Quantum Chemistry
- Coordination Chemistry
- Electrochemistry
- Green Chemistry
- Materials Chemistry
- Medicinal Chemistry
- Metalloradical Chemistry
- Nanobiotechnology
- Physical Chemistry
- Polymer Chemistry
- Protein Chemistry
- Supramolecular Chemistry
- Synthetic Organic Chemistry
- Ultrafast Spectroscopy and Chemical Dynamics

Please visit <https://chemistry.snu.edu.in/people/faculty> to know more about the faculty members and their specific research interests.

Eligibility: A candidate should have a four-year Bachelor's degree or Master's degree in Natural Sciences or M. Tech. in relevant areas, with a minimum of 60% marks or an equivalent grade point. Students whose final results of four-year Bachelor's/Master's program are awaited can still apply if they secured at least 55% marks in previous year's exam. However, such students must produce a proof of minimum of 60% marks or an equivalent grade point in four-year B.Sc./M.Sc./M.Tech. before taking admission in the Ph.D. program, if qualified.

Selection Process: Shortlisted candidates will be intimated for appearing in written test and interview. Candidates with CSIR-UGC NET-JRF, DBT-JRF, DST-Inspire etc. fellowships will directly appear for the onsite interview.

Fees and Financial Assistance: Detailed information about the fee structure and the nature of assistantships are available on the [website](#).

All full-time Ph.D. students admitted into the program shall receive a **doctoral award (teaching and research assistantship) consisting of tuition-fee waiver (as per department) and a monthly stipend of ₹40,000 for the first two years, and ₹45,000 for the next three years**, subject to benchmarked performance. The continuation of the award is subject to satisfactory performance in the program evaluated continuously and compliance with all University regulations. **Support will be available for deserving Ph.D. students to disseminate their work through conferences and publications. Please note that students with CSIR, UGC, INSPIRE, ICMR etc. fellowships shall receive 100% tuition fee waiver.**

Application Fees: You will be required to pay a non-refundable application fees of ₹1,200 online. Candidate may note that the University reserves the right to accept or reject any application based on its departmental screening criteria. Hence, not all application may be shortlisted for written examination. Therefore, no requests for refund of the application fee shall be entertained whether or not the candidates are called for written examination.

Application Instructions: All interested applicant shall **apply online** from the link given below or on the website. Please follow the instructions carefully.

- Fill all the mandatory fields
- **Upload** of following document is required
 - Passport size color photograph
 - Current CV
 - All Mark sheets/Degree Certificates (10th Standard onwards)
 - Standardized Examination certificate- CSIR, UGC, GATE etc. if applicable.
 - A Statement of Purpose

Additionally, candidates are requested to provide at least one reference letter, which the referee may send directly to hod.chy@snu.edu.in. The subject of the email should clearly mention, “Recommendation letter for the Ph.D. Programme in Chemistry: *Applicant’s name*”.

Please note that the application will not be considered without all the necessary prescribed documents and application fee.

Important Dates:

Online submission of application closes on Tuesday, 31 May 2022.

The dates of online written test and onsite interviews will be notified in the due course.

The session starts from August 2022.

For any queries related to the application and admission, you may contact:

Ms. Saritha Rajan,
Executive Assistant to the HoD,
Department of Chemistry,
Email: saritha.rajan@snu.edu.in, Telephone: +91 120 7170118

About Chemistry Department (<https://chemistry.snu.edu.in/>):

The Department is committed to pursuing research on fundamental and applied problems through scientific inquiry, and to stimulating the development of innovative interdisciplinary research programs around key areas of excellence. The immediate mission of Chemistry Department is to:

- Contribute to the advancement and dissemination of chemical knowledge through educational programs, high quality publications in peer reviewed international journals and innovative patents.
- Devise robust and novel solutions to address the needs of society by promoting research into chemical and interdisciplinary projects.
- Train undergraduate, graduate students and research fellows to generate future independent scientists for serving the needs of society, academia and industries.

Our vision is to make our world a better place through societal-impact cutting-edge research and innovation at Shiv Nadar University.

Research Infrastructure

All chemistry labs are equipped with fume-hoods, Schlenk lines, eyewash stations and safety showers. Lab facilities include advanced analytical instruments such as Flash Chromatography, Gas Chromatography with MS, Gel Permeation Chromatography, HPLC (Prep & Analytical), FPLC, NMR, LCMS-qToF, MALDI-ToF, DSC, TGA, Single-crystal X-ray Diffractometer, Electrochemical Analyzer, Fluorimeter, TCSPC, Polarimeter, UV-visible, High-resolution FTIR, Raman Spectrometers, Microwave Reactor, Inverted Microscope, Fluorescent Microscope, Host-stage Polarized Microscope, Ferroelectric-Piezoelectric- Pyroelectric test system, Bio-safety Cabinets, CO₂ Incubators, Shaker Incubators, Glove box, Multimode Plate Reader, Electroporator, Deep freezer, Cell Counter Computational facilities include a high performance IBM cluster ('Magus') consisting of 32 compute nodes (plus 2 nodes with GPU processors) with a total capacity of 30 TF of theoretical peak performance, plus 8 nodes with high-end CPUs. Additionally, several Linux workstations are used for teaching as well as research purpose. Software for bioinformatics and cheminformatics, molecular modeling, molecular dynamics, quantum chemistry, data analysis and statistical learning are also available.

Our library, housed in a modern 5-storey building, provides online access from anywhere in the campus to a large number of electronic journals and databases including APS, AIP, ACS, RSC, AMS, SIAM, Springer, Elsevier, Wiley and Nature journals, in addition to various books, e-books and other learning resources.

Please visit following links to know more about our research laboratories and facilities.

<https://chemistry.snu.edu.in/research/laboratories>

<https://snu.edu.in/research/facilities>

About Shiv Nadar University

Shiv Nadar University (SNU) is a comprehensive, multidisciplinary, research-focused and student-centric institution that is bringing a paradigm shift in higher education in India through

its innovative curriculum, interdisciplinary focus, and cross-disciplinary thinking across a wide range of disciplines. The University is building an eco-system of knowledge to promote recognition of the inter-connectedness of ideas, systems, and environments in the world inside the campus, and those outside it. The University has 5 Schools, 18 Departments and 6 Research Centers engaged in teaching, practice, and research in disciplines as diverse as Engineering, Humanities & Social Sciences, Management, Natural Sciences, Art, Design, Performing Arts, Communication, and Extended Education & Professional Development. The Schools offer Bachelor, Master's, and Doctoral degrees along with multidisciplinary curriculum to enable students to explore subjects and disciplines that may be widely different from their chosen Majors.

- The University has recently been chosen as one of the select ten private “**Institutions of Eminence (IOE)**” by the Government of India.
- In the **NIRF** (Government's National Institutional Ranking Framework), SNU has been the youngest institution in the 'top 100' *Overall* list, and the score has been rising steadily. SNU ranked 52 in the *University* category, and 77 *Overall* in NIRF 2019.
- The University has been accredited with ‘**A**’ **Grade** by the National Assessment and Accreditation Council (**NAAC**), valid for a period of 5 years from 26 November 2019.
- SNU is also among a select group of green-field institutions in the country, which were awarded the prestigious **Atal Incubation Center** grant by the Niti Aayog, Government of India, in the very first round in 2017.

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