

School of Natural Sciences

Department of Chemistry

Ph.D. Admissions: 2018-2019, Spring (2019)

The Department of Chemistry in the School of Natural Sciences at Shiv Nadar University invites applications for admission in the Ph.D. program starting January 2019. Our graduate program is designed to serve a wide range of research interests and offers an excellent learning and research environment to motivated and ambitious students. Many of our research projects are interdisciplinary in nature, involving collaborations across multiple departments in the School of Natural Sciences, as well as other schools and research centers of the university.

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

- Catalysis
- **Chemical Biology**
- **Cheminformatics**
- **Computational Quantum Chemistry**
- **Chemistry of Nanomaterials**
- Coordination Chemistry
- Chemical & Biological Crystallography
- **Green and Environmental Chemistry**
- **Materials Chemistry**
- Medicinal Chemistry
- Molecular Toxicology
- Physical Chemistry
- **Polymer Chemistry**
- Protein Chemistry
- Supramolecular Chemistry
- Synthetic Organic Chemistry

However, in this semester, admissions will be considered primarily for the research areas highlighted in bold letters.

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

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

Ms. Saritha Rajan

EA to the HoD

Department of Chemistry

Email: saritha.rajan@snu.edu.in

Telephone: +91 120 3819118

After the online submission, a **copy of the completed form** along with the **online payment receipt** should be sent by **email** to Ms. Sarita Rajan, saritha.rajan@snu.edu.in. The subject heading of email should clearly mention, “Application for PhD Programme”. Additionally, you are requested to provide one reference letter directly on the above email addresses to support your candidature. If any of the required documents (like reference letter, transcript, etc.) could not be uploaded during the on-line application process due to any reason, the same should be sent as attachment in the above email.

Online submission of application will be closed on Sunday, 16th December 2018

APPLY NOW

About Chemistry Department:

The department is committed to pursuing research on fundamental and applied problems by addressing scientific but significant inquiry by individual faculty and student investigators, and stimulating the development of innovative interdisciplinary research programs around key center of excellence. The immediate mission of Chemistry Department is to

- Come up with robust and novel solutions that will culminate into high quality publications in peer reviewed international journals
- Utilize the solutions towards application research by promoting innovative, interdisciplinary and patent worthy research projects
- Train the undergraduate, graduate students and research fellows to generate future independent scientists and engineers for serving our academia and industries

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

Please visit <https://chemistry.snu.edu.in/> for further details.

Research Infrastructure

Laboratories in the School of Natural Sciences (SNS) have recently moved in to two new buildings equipped with state of the art research facilities including fume hoods, HPLC, FPLC, GPC, flash chromatography, MALDI-TOF with imaging, LCMS-qToF, DSC, AFM, UV-visible, FTIR, NMR, Single-Crystal and Powder XRD, Fluorimeter, Ball-milling, I-V measurement system, Electrical measurement system, Thermal evaporator, Glove box, Microwave furnace, Polarization loop-tracer, Bio-safety cabinets (for mammalian, bacterial and plasmodium cultures), CO₂ Incubators, Shaker incubators, Flow cytometry, Inverted and Polarizing Microscope, Electrophoresis apparatus, Imaging systems, Plate reader, Cell counter, Fluorescent microscope, PCR, RT-PCR, *etc.*

Computational facilities at SNS include a high performance IBM cluster (“*Magus*”) consisting of 63 compute nodes (1008 cores +2 nodes with GPU processors) with a theoretical peak performance of 30 TF, plus 8 nodes with high-end CPUs and memory for application-specific needs. Additionally, several Linux workstations are used for teaching as well as research purposes. Software for bioinformatics and cheminformatics, molecular modeling, molecular

dynamics, quantum chemistry, crystallographic analysis, data analysis and statistical learning are also available.

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

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

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