School of Natural Sciences  
Department Chemistry  
Ph.D. Admissions Announcement: 2015-16

The Department of Chemistry in the School of Natural Sciences at Shiv Nadar University invites applications for admission in the Ph.D. program starting August 2015.

**Broad Research Areas Available:**
- Chemical biology
- Cheminformatics
- Chemistry of nanomaterials
- Computational quantum chemistry
- Coordination Chemistry
- Green chemistry
- Medicinal chemistry
- Molecular Toxicology
- Polymer chemistry
- Structural Chemistry and Crystallography
- Supramolecular Chemistry
- Synthetic Organic Chemistry

More detailed descriptions of research interests of our faculty can be found at [http://www.snu.edu.in/naturalsciences/natural_sciences_departments_chemistry_faculty.aspx](http://www.snu.edu.in/naturalsciences/natural_sciences_departments_chemistry_faculty.aspx). 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. Three dedicated research centers – Big Data Analytics Center, Center for Informatics, and Institute for Innovations & Inventions with Mathematics & IT– provide additional support for interdisciplinary research.

**Eligibility:** A candidate should have a Masters degree in Chemistry, with a minimum of 60% marks or an equivalent grade point. Candidates who have qualified for CSIR-UGC NET-JRF, DBT-JRF, GATE-JRF, JEST, or ICMR-JRF are strongly preferred. Short-listed candidates will be required to demonstrate their knowledge through an on-site written test and interview, to be held in late May 2015. Selections will be based on past academic performance, written examination and/or interview.

**Financial Assistance:** All candidates admitted to the Ph.D. program are eligible for teaching/research assistantships of **Rs. 35,000 per month** along with tuition fee waiver, and hostel fee waiver. The assistantship is subject to satisfactory performance in the program evaluated continuously, and compliance with all University regulations.
Application Process: All interested candidates should apply in the prescribed form, available at [http://www.snu.edu.in/pdf/PhD-Application-Form-Chemistry-SNU-2015.pdf](http://www.snu.edu.in/pdf/PhD-Application-Form-Chemistry-SNU-2015.pdf). The duly filled form along with supporting documents, and a non-refundable demand draft of Rs.1,000/- (in favor of “Shiv Nadar University” payable at Delhi) should be sent by Speed Post to:

**Ms. SarithaRajan**  
*EA to the HoD*  
Department of Chemistry  
Shiv Nadar University P.O.  
NH-91, Tehsil Dadri  
District Gautam Buddha Nagar, UP 201314, India.  
Email: saritha.rajan@snu.edu.in  
Telephone: +91 120 3819118  

Applications complete in all respects should reach the above office by **Friday, 15 May 2015, 5 p.m.**  

About SNU  
Shiv Nadar University ([http://snu.edu.in/](http://snu.edu.in/)) is a multi-disciplinary research university, established by the Shiv Nadar Foundation in 2011 through an act of the State of Uttar Pradesh, India. It is built on a spacious 256 acres fully-residential campus, near Dadri, U.P., at the outskirts of Delhi. The University is driven by its distinguished faculty in natural sciences, humanities and social sciences, engineering, management & entrepreneurship, communication, education, art and design. The Ph.D. program at SNU is full-time and completely residential.

Research Infrastructure  
Laboratories in the School of Natural Sciences (SNS) are equipped with basic research facilities including fume hoods fitted with Schlenk lines, LCMS-qToF, UV-visible spectrophotometers, Infrared spectrophotometers, single crystal and powder XRD, flash chromatography, fluorimeter, ball-milling, I-V 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 microscope, plate reader, cell counter, fluorescent microscope, electroporator, PCR, RT-PCR, etc. Advanced analytical instrumentation such as 400 MHz NMR, HPLC, CHN analyzer, DSC, TGA, DLS, rheometer, SEM, AFM, Raman spectrometer, photoluminescence, surface profilometer, MEMS, pulsed electron deposition, magnetron sputtering, vacuum annealing oven, split tube, and cylindrical furnaces are in the process of being acquired.

Computational facilities at SNS include a high performance IBM cluster (“Magus”) consisting of 32 compute nodes (plus two nodes with GPU processors) delivering 332.8 Giga flops with each node and a theoretical peak performance of 10.649 TF from over all compute nodes. This system
is in the process of being further expanded. Additionally, several Linux workstations are used for teaching as well as research purposes. 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.