SHIV NADAR

INSTITUTION OF EMINENCE DEEMED TO BE
UNIVERSITY
DELHI NCR

School of Natural Sciences

Department of Life Sciences

Ph.D. Admissions Announcement: Monsoon 2023

Ph.D. in Life Sciences / Ph.D. in Bioinformatics

The Department of Life Sciences in the School of Natural Sciences at Shiv Nadar Institution of Eminence (Deemed to be University), Delhi-NCR, invites applications for admission to the Ph.D. program for the coming semester **(Aug 2023).** Candidates admitted for a full-time Ph.D. program will receive a stipend from the University (for details, see the fee and assistantship section below), subject to satisfactory performance in the assessment. Candidates with their fellowships through CSIR-UGC NET-JRF, INSPIRE, DBT-JRF, ICMR, etc., are encouraged to apply.

Research in the Department of Life Sciences is multifaceted, with a major focus on the areas of
  - Cancer Biology
  - Cell Signaling
  - Epigenetics
  - Neuroscience
  - Genomics
  - Parasitology
  - Virology
  - Bioinformatics
  - Plant Biology
  - Bacterial Morphogenesis and Biofilms
  - Protein Folding and Stress Response
  - Chromatin remodeling factors and nuclear receptor signaling
  - Protein Structure Biology
  - Ecology & Evolutionary Biology
  - Noncoding RNA & gene regulation
  - Developmental Biology
  - Regeneration Biology

Many of our research projects are interdisciplinary, involving collaborations with other departments/schools/centers of the University. Detailed descriptions of the research areas of each faculty member can be found at https://lsci.snu.edu.in/people/faculty.

<u>For this semester, SNIoE Ph.D. fellowships in the Department of Lifesciences – 09</u>

1. Prof. Sanjeev Galande – Epigenetics (Immunology and Cancer Biology)
2. Dr. Naga Suresh Veerapu - Virology
3. Dr. Ashish Gupta - Epigenetics and Human Disease
4. Dr. Ashutosh Singh – Bioinformatics
5. Dr. Sri Krishna Jayadev Magani - Cancer cell signaling
6. Dr. Sachin Deshmukh - Neurophysiology, Behavioural, and Systems Neuroscience
7. Dr. Geetanjali Chawla - Age-related Diseases, Noncoding RNA & gene regulation
8. Dr. Neelesh Dahanukar - Molecular ecology and evolution
9. Dr. Tanvi Deora - Biomechanics of insect flight - mechanics and neural control in natural contexts

<u>Project-based Ph.D. positions - 07</u>

1. Prof. Sanjeev Galande – Epigenetics (Immunology and Cancer Biology)
2. Dr. Anindita Chakrabarty - Cancer Biology and Pharmacology
3. Dr. Koyeli Mapa - Protein Homeostasis and Stress Response Pathways
4. Dr. Rohini Garg - Plant Molecular Biology/Bioinformatics
5. Prof. Prasun Roy -3 Vacancies - Neuroscience, Cognitive Science, and Functional Imaging
(**Specific requirements for Prof. Prasun Roy's projects**: 1. Autonomic Neural Performance Index estimation, 2. The 3-D Optimization of Neuro-Rehabilitation Therapy. Please see the eligibility criteria for these projects in the eligibility section before filling out the application form.)

The candidates who have fellowships through CSIR-UGC NET-JRF, INSPIRE, ICMR, DBT-JRF, etc., may join any research laboratory based on the seat's availability as per the UGC guidelines. University has the right to increase or decrease the number of seats at any time.

Interested candidates must complete their online application and submit a copy of the completed form via Email to anil.shukla@snu.edu.in with the subject heading "**Application for the Ph.D. program in Life Sciences & Bioinformatics**." Additionally, you are requested to provide one reference letter to support your candidature during the interview.

Selection Process

Eligible candidates will be intimated for appearing in written test and interview on the dates mentioned below, which will be conducted at Shiv Nadar Institute of Eminence (Deemed to be University), University Campus in Gautam Buddha Nagar District (near Greater Noida), Delhi-NCR, U.P. **The tentative dates are given, and any changes to the written test and interview dates will be communicated in due course.**

Candidates with CSIR, UGC-NET-JRF, INSPIRE, ICMR, DBT-JRF, etc., fellowships are eligible for direct interview.

Important Dates

Last date for online application	2nd July 2023
Notification (via Email) to the eligible candidates for exam/interview	06th July 2023
On-campus examination and interview (for shortlisted candidates)	17th – 19th July 2023

Any written examination and interview date changes will be notified in due course.

The session starts in August 2023.

Eligibility

For Life Sciences: A candidate should have a Master's degree in any area of Biological Sciences with a minimum of 60% marks or an equivalent grade point.

For Bioinformatics: Master's degree in Bioinformatics/Biotechnology/Engineering/Medicine or equivalent with good programming knowledge and a minimum of 60% marks or an equivalent grade point.

Specific requirements for Prof. Prasun Roy's Bioengineering projects: M.Sc./B.Tech./M.Tech., in Computing/Engineering/Physics or allied subjects. **Those applying for Bioengineering projects should send a separate Email to anil.shukla@snu.edu.in mentioning "Ph.D. application under Bioengineering Projects".**

After the online submission, a copy of the completed application form should be sent by Email to anil.shukla@snu.edu.in

Application Instructions:

All interested applicants should apply online by clicking the "**Apply Now**" button on this page's bottom. Please follow the instructions carefully.
• Fill all the mandatory fields
• **Upload** the following documents online:
  ▪ Passport size color photograph
  ▪ Current CV
  ▪ All Mark sheets/Degree Certificates (Bachelors and Masters)
  ▪ Standardized Examination/Fellowship Certificate- CSIR, UGC, INSPIRE, ICMR, etc. (if applicable)
  ▪ A Statement of Purpose

After the online submission, a copy of the completed application form should be sent by Email to anil.shukla@snu.edu.in

Please make provision for at least *one reference letter* in support of your application. The reference letter can also be sent to the same email address.

Application Fees: You must pay non-refundable application fees of Rs. 1,200 (One Thousand Two Hundred Only) by credit/debit card. Candidate may note that the University reserves the right to accept or reject any application based on its departmental screening criteria; hence not all applications may be shortlisted for written examination. Therefore, no requests for a refund of the application fee shall be entertained whether or not the candidates are called for a written test.

Note: The interview will be held on campus for the shortlisted candidates. The University will provide local transport from Pari Chowk, Greater Noida, to SNIoE Campus. The limited number of shared accommodations (on a payment basis) at the campus hostel will be available.

Fees and Assistantship

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 a 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, and ICMR fellowships shall receive a 100% tuition fee waiver.

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

Mr. Anil Kumar Shukla, *Administrative Assistant*, Department of Life Sciences.
Email: anil.shukla@snu.edu.in Telephone: 0120-7170100 Extn: 654

Please note that the application will not be considered without all the necessary prescribed documents and the application fee. For any application and admission process queries, write to the above-given Email ID.

About Life Sciences Department:
Many of our research projects are interdisciplinary, involving collaborations across the globe. Detailed descriptions of the research interests of our faculty and other information is provided on the Departmental websites: https://lsci.snu.edu.in; https://lsci.snu.edu.in/research/laboratories

Research Infrastructure: The laboratories of the Department of Life Sciences and School of Natural Sciences are well equipped with state-of-the-art research facilities and equipment, including a Next Generation Sequencing facilities, Flow cytometer and sorter, Confocal Laser Scanning Microscope, Spinning disk microscope, Real-Time PCR, Advanced Fluorescence Microscopes including live imaging, Culture facilities (BSL-2) for Mammalian cells, Parasites and Viruses, BSL-3 laboratory, and a central instrumentation facility comprising LC-MS, XRD, AFM, CD- Spectrophotometer, MST, Raman spectrometer, Luminometer, genome sequencer, etc. A state-of-the-art SPF animal facility is built and will be commissioned by May 2023. This facility will house multiple animal models and is equipped for generating genome-edited animals. The computational facilities include a high-performance IBM cluster ("*Magus*") consisting of 57 compute nodes (8064 cores) with a total capacity of 320 TFlops of Theoretical Peak Performance. Additionally, several stand-alone Linux workstations are being used for teaching and research purposes. Several softwares for Bioinformatics and Cheminformatics analysis are also available. Center for Excellence in Epigenetics is affiliated with the Department of Life Sciences, which has state-of-the-art facilities for epigenetics, genomics, and drug discovery studies.

About Shiv Nadar Institution of Eminence, Delhi-NCR

Shiv Nadar Institution of Eminence, Delhi-NCR, is a comprehensive, multidisciplinary, research-focused, and student-centric institution 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 interconnectedness of ideas, systems, and environments in the world inside the campus and those outside it. The University has 5 Schools, 24 Departments, and 8 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 a multidisciplinary curriculum to enable students to explore subjects and disciplines that may be widely different from their chosen Majors.

The University has been selected as one of the 10 private "Institutions of Eminence" by the Government. In the NIRF (Government's National Institutional Ranking Framework), SNIoE has been the youngest institution in the 'top 100' Overall list, and our score has been rising steadily. In NIRF-2021, SNIoE ranked 56 in the 'University' category. We are also among a selected group of green-field institutions in the country that was awarded the prestigious Atal Incubation Center grant by the Niti Aayog, Government of India, in the first round in 2017.

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