

School of Natural Sciences
Department of Physics
Announcement of Ph.D. Admissions for the AY 2017-18

The Department of Physics in the School of Natural Sciences at Shiv Nadar University (SNU) invites applications for admission in the Ph.D. program starting from August 2017. 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. Diverse research interests in the fields of Condensed Matter and High Energy Physics of our faculty members can be found at http://snu.edu.in/naturalsciences/natural_sciences_physics_faculty.aspx. In AY 2017-18, department is looking for those candidates who are interested to perform research in the following areas.

- Soft matter physics
- Statistical properties of complex/chaotic systems using random matrix theory
- Theory of strongly correlated electron systems and novel quantum materials,
- Smart multiferroic materials
- Oxide thin films and nanomaterials
- Physics of semiconductor materials and devices
- Spintronics in magnetic thin films and multilayers,
- High energy physics

Eligibility: A candidate should have (or expected to have) a Master's degree by August 2017 in the appropriate science discipline, with a minimum of 60% marks or an equivalent grade point. Candidates who have qualified for CSIR-UGC- NET-JRF, GATE, JEST, ICMR-JRF, or NBHM Fellowship will be preferred.

Selection Process: Eligibility criteria mentioned above are minimum standards and applications not meeting the same will be summarily rejected. **Please note that not all candidate meeting the minimum eligibility criteria may be shortlisted.** Short-listed candidates will be required to demonstrate their knowledge through an on-site written test and interview, to be held on **23rd June 2017**. Selections will be based on past academic performance, written examination and/or interview. **Admission is sought for a maximum of 15 seats in the department.** Please note that the University reserves the right not to admit any student if suitable candidates, according to the admission committee, are not found.

Assistantship: All candidates admitted to the Ph.D. program are eligible for teaching/research assistantships of **Rs. 35,000.00 per month** for four years. The assistantship is subject to satisfactory performance in the program evaluated continuously, and compliance with all the University regulations.

Admission and other applicable fees and charges for the Ph.D. program can be found below or at the SNU website.

Application Fees: You will be required to pay a non-refundable application fees of Rs. 1,200 (One Thousand Two Hundred Only) by credit/debit card or Demand Draft drawn in favor of **Shiv Nadar University** payable at **NOIDA, Uttar Pradesh**.

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
- **Online 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**
- **The application fee can be paid online or a Demand Draft can be sent to University.**
- After online submission, print the completed form and send by speed post to the University at the address given below with following document (You may add additional documents if required)
 - Completed form
 - At least one reference letter in support of application
 - Demand Draft for application fee (If online fee payment mode is not used)

Please note that the application is not deemed complete until we receive all the necessary prescribed documents and application fees.

Completed application form along with the supporting documents and online application fee payment receipt or demand draft of Rs. 1200 are to be sent by Speed Post to:

Ms. Heena Slathia
EA to the HOD Physics,
School of Natural Sciences,
Shiv Nadar University , NH-91, Tehsil Dadri
District Gautam Buddha Nagar, UP 201314, India
Email: heena.slathia@snu.edu.in
Telephone: 0120-3819386 / +91 9569777783

Applications should reach the above office by Friday, 31st May 2017, 5 p.m.

APPLY NOW

About SNU

Shiv Nadar University (<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 clean room, thermal deposition, chemical vapor deposition, pulsed electron deposition, magnetron sputtering, spin coater, ball-milling, vacuum annealing, high temperature oven, high temperature split tube furnaces, hydraulic press, glove box, microwave furnace, fume hoods, bio-safety cabinets, CO₂ incubators, shaker incubators, flow cytometry and advanced analytical instruments like thin film XRD, single crystal XRD, AFM, 325nm PL, UV-visible-IR spectrophotometers, I-V measurement system, polarization loop-tracer, polarization microscope, fluorescence microscope, surface profiler, viscometer, thermal conductivity, contact angle, 400 MHz NMR, LCMS-qToF, plate reader, cell counter, electroporator, PCR, RT-PCR, HPLC, and many others.

Computational facilities at SNS include a high performance IBM cluster (“*Magus*”) consisting of 60 compute nodes (plus two nodes with GPU processors) delivering a theoretical peak performance of ~30 TF. Additionally, there are several stand-alone Linux workstations that are being used for teaching and research purpose. Several software for molecular modeling, molecular dynamics, quantum chemistry, statistic learning, bioinformatics and cheminformatics, are also available.

Our library, housed in a modern 5-storey building, provides online access from anywhere in the campus, to the e-books, electronic journals and databases from APS, AIP, ACS, RSC, AMS, SIAM, Springer, Elsevier, Wiley, Nature, and others.

Fees Structure 2017 – 2021 (in ₹)

	Item	Year 1	Year 2	Year 3	Year 4	Full Program
(1)	One time charges					
	Admission Fee (Non-refundable)	₹ 24,000				₹ 24,000
	Security Deposit (Refundable)	₹ 75,000				₹ 75,000
(2)	Recurring Charges					
	Tuition Fee	₹ 1,00,000	₹ 1,00,000	₹ 1,00,000	₹ 1,00,000	₹ 4,00,000
	Hostel Fee (Single)	₹ 1,20,000	₹ 1,20,000	₹ 1,20,000	₹ 1,20,000	₹ 4,80,000
	Medical Insurance	₹ 3,204	₹ 3,204	₹ 3,204	₹ 3,204	₹ 12,816
(3)	Total Charges (1)+(2)	₹ 3,22,204	₹ 2,23,204	₹ 2,23,204	₹ 2,23,204	₹ 9,91,816
	Financial Assistance					
	Tuition Fee Waiver 90%	₹ 90,000	₹ 90,000	₹ 90,000	₹ 90,000	₹ 3,60,000
	Hostel Fee Waiver - 70%	₹ 84,000	₹ 84,000	₹ 84,000	₹ 84,000	₹ 3,36,000
(5)	Net Payable (3)-(4)	₹ 1,48,204	₹ 49,204	₹ 49,204	₹ 49,204	₹ 2,95,816
	Cost Excl. Security Deposit					₹2,20,816
(6)	Teaching/Research assistantship of ₹35,000 per month (max 48 months)	₹ 4,20,000	₹ 4,20,000	₹ 4,20,000	₹ 4,20,000	₹ 16,80,000

Note:

1. Medical Insurance is compulsory for all Ph.D. Students. Premium for Medical Insurance may change as per the prevailing rate offered by the insurance service provider.
2. Waivers
 - a. Waivers for tuition and hostel fee is for 8 semesters only. Beyond 8th semester, the student has to pay the hostel charges and tuition fee in full.
 - b. The Department reserves the right to reduce the waiver based on the academic credentials of the applicant.
3. Continuation of financial assistance is subject to satisfactory performance evaluated continuously, and compliance with all University regulations. The student is required to maintain a minimum CGPA OF 7.00.
4. The Assistantship is assured for maximum of 48 months only and cannot be combined with any other fellowship or stipend.
5. All charges are payable at the beginning of the Academic Year as per schedule announced separately.
6. Mess and Laundry Charges: In addition to above mentioned charges, every Ph.D. student has to pay ₹ 450 per month for laundry. The mess charges approximate at about ₹ 4,300 per month. Student has the option of joining either of two messes.
7. Security deposit is refunded on Graduation after deduction of any recoveries.