School of Engineering
Ph.D. Admission Announcement: 2015-16
Department of Mechanical Engineering

The Mechanical Engineering Department in the School of Engineering at Shiv Nadar University invites applications for admission in the Ph.D. program.

**Broad Research Areas:**

**Mechanics: Modeling, Experimentation, & Computation**
Computational Structural and Fracture Mechanics, Fluid Mechanics, Mechanics of Solid Materials, Non linear material models, flow-induced vibration, acoustic compressible flow

**Thermodynamics & Energy**
Solar energy, Air-conditioning, Heat Transfer, Energy and CFD (Computational Fluid Dynamics)

**Bioengineering & Nano Engineering**
Synthesize and characterization of nanoparticles and multifunctional nano-hybrid materials (magnetic, optical etc) with controlled morphology, particle sizes, pore sizes and surface properties for the applications at the interface of chemistry and biology such as bio-sensors, bioseparations, nanomedicine and also for green energy technologies.

**Manufacturing, Product Development & Industrial Engineering**
Rapid product development, computer aided design, product design, precision engineering, applications. Quality, reliability and maintenance engineering and their integration with operations planning

**Robotics, Mechatronics & Control**
Biomimetic robotics, Industrial Automation and Control, fuzzy logic.

**Tribology**

More detailed descriptions of research interests of our faculty can be found at [http://snu.edu.in/engineering/engineering_mechanical_engineering_faculty.aspx](http://snu.edu.in/engineering/engineering_mechanical_engineering_faculty.aspx)

Many of our research projects are interdisciplinary in nature, involving collaborations with other schools and research centers of the university.
Eligibility

<table>
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<tr>
<th>Level of Education of Applicant</th>
<th>Selection process</th>
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<tr>
<td>Masters degree in Mechanical / Aeronautical / Aerospace / Automobile / Civil (structures), with a minimum of 60% marks or an equivalent grade point from a recognized technical institute or university. Candidates who have qualified for GATE are highly preferred.</td>
<td>Shortlisted candidates will be intimated well in advance for appearing in written tests and interview. The written tests and interview will be conducted at Shiv Nadar University (SNU) campus in Gautam Buddha Nagar District (near Greater Noida), U.P.</td>
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<td>OR</td>
<td>Separate Test and Interview Centers may be opened at various locations within India depending upon the pool of shortlisted applicants.</td>
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<tr>
<td>B.E. / B.Tech. in relevant branch of engineering or equivalent degree with exceptional academic credentials, good GATE score and strong aptitude for research.</td>
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<td>Applicants waiting for the qualifying examination results are also eligible to apply.</td>
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Short-listed candidates will be required to demonstrate their knowledge through an on-site written test and interview. Selections will be based on past academic performance, written examination and/or interview.

Syllabus for Mechanical Engineering (MED)

ENGINEERING MATHEMATICS

Linear Algebra, Calculus, Differential equations, Probability and Statistics, Numerical Methods

MECHANICAL ENGINEERING


Financial Assistance: All candidates admitted to the Ph.D. program will receive teaching/research assistantships of INR 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:** Fill PhD Application Form by downloading from [http://snu.edu.in/admission/admissions_open_for_phd_soe.aspx](http://snu.edu.in/admission/admissions_open_for_phd_soe.aspx). Please send the filled and signed application form with the demand draft and self-attested enclosures to the following mailing address with “Ph.D. application for MED-SNU 2015-16” written on the envelope:

Mr. Narender Kumar,
Room No. C-111
Mechanical Engineering
Department School of Engineering
Shiv Nadar University P.O.
NH-91, Tehsil Dadri
District Gautam Buddha Nagar, UP 201314

Telephone: 0120 266 3801 Ext. 301

**Important Dates**

| **Last date for the receipt of completed application form & application fee** | **June 30, 2015** |
| **Written Tests and Interview** | **July 7, 2015** |
| **Declaration of Results** | **by July 15, 2015** |

Applications will be considered immediately upon receipt and shortlisted candidates will be notified by email well in advance so that they can plan their travel. Hence, candidates are urged to apply as early as possible.

Completed applications will be considered till **June 30, 2015** on a case by case basis subject to availability of assistantships. If you will meet with the admission criteria, you will be contacted to proceed further as per the Admission procedure of the chosen program.

**About Shiv Nadar University**

Shiv Nadar University ([www.snu.edu.in](http://www.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., on 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 currently a fulltime, residential program.
The Ph.D. program at SNU is currently a full-time residential program. However in case of part-time scholars, please direct your queries to HoD, Mechanical Engineering Department (email - santanu.mitra@snu.edu.in). For any additional information about the Ph.D. program the prospective candidates may contact Dr. Ramesh Gupta (email-Ramesh.gupta@snu.edu.in) or Dr. Santanu Mitra (email- santanu.mitra@snu.edu.in).