

# SHIV NADAR UNIVERSITY

School of Engineering

Ph.D. Admission Announcement: 2020-2021, August 2020

## 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:**

- *Biomaterials, Surface Engineering, Additive manufacturing, Tribology & Biomimetics, Polymer science & engineering, Nanoscience & Nanotechnology and High entropy alloys*
- *Vibrations and Aeroelasticity*
- *Nonlinear FEA, Composite Structures and Functionally Graded Materials*
- *Computational mechanics*
- *Computational Fluid Dynamics and Multiphase flows*
- *Robotics, Mechatronics and Control - Bio-inspired Robot*
- *Heat and mass transfer, Renewable energy*
- *Reliability, Smart manufacturing, Industrial engineering and Quality Control*

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

Level of Education of Applicant	Selection process
<p>1. ME/MTech degree in Mechanical / Aeronautical / Aerospace / Automobile /Industrial Engineering/Production and Industrial Engineering/Material Science and Engineering/Nano Science and Technology/Chemical Engineering/Structures, with a minimum of 60% marks or an equivalent grade point from a recognized technical institute or university. AND</p> <p>B. Tech/BE. in Mechanical/Aerospace or relevant Discipline. Candidates who have qualified for GATE are highly preferred.</p> <p>Applicants waiting for the qualifying examination results are also eligible to apply.</p>	<p>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.</p> <p>Separate Test and Interview Centers may be opened at various locations within India depending upon the pool of shortlisted applicants.</p>

**Selection Process:** The eligibility criteria mentioned above are minimum standards and applications not meeting the same will be summarily rejected. Short-listed candidates will be required to demonstrate their knowledge through an on-site written test and/or interview, to be held in **July 2020 tentitively**. Selections will be based on past academic performance, written examination and/or interview. **Please note that not all candidate meeting the minimum eligibility criteria may be shortlisted.**

### [Fees and Assistantship](#)

Detailed information about the fee structure and the nature of assistantships are available on the website.

All full-time PhD students admitted into the program shall receive a **doctoral research and teaching assistantship consisting of 100% tuition-fee waiver and 70% hostel-fee waiver**. The student shall also receive a **monthly stipend of ₹50,000 for the first two years, and ₹55,000 for the next two years** subject to bench-marked performance. The assistantship is subject to satisfactory performance in the program evaluated continuously and compliance with all University regulations.

SNU does not provide fellowship/assistantship to part-time students.

### [Syllabus for Mechanical Engineering \(MED\)](#)

#### **ENGINEERING MATHEMATICS**

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

#### **MECHANICAL ENGINEERING**

Strength of Materials, Fluid Mechanics, Heat Transfer, Thermodynamics, IC Engines, Refrigeration and Air Conditioning, Theory of Machine, Machine Design, Turbomachines, Computer Integrated Manufacturing, Robotics, Operation Research and Engineering Materials, Surface Engineering and Tribology, Renewable energy technology, Production Technology.

### [Application Instructions:](#)

All interested applicants should apply online by clicking on “Apply Now” button. Please follow the instructions carefully.

- Fill all the mandatory fields
- **Online upload** the following documents:
  - 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**

• **Application Fees:** You will be required to pay a non-refundable application fees of ₹ 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 application may be shortlisted for written examination. Therefore, no requests for refund of the application fee shall be entertained whether or not the candidates are called for written examination.

• After online submission, print the completed form and send by email/speed post at the address given below. A reference letter in support of your application will also be required.

• Following is the checklist of the documents (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 prescribed documents and application fees.**

### Important Dates

<b>Last date for the receipt of completed online application form &amp; application fee</b>	<b>July 15, 2020</b>
<b>Written Tests and/or Interview</b>	<b>To be intimated</b>
<b>Declaration of Results</b>	<b>August 2020*</b>

\*Note: These dates may be subject to change.

Applications will be considered immediately upon receipt and shortlisted candidates will be notified (email) by 3<sup>rd</sup> week of July, 2020 (tentatively). Hence, candidates are urged to apply as early as possible. You will be contacted for further admission procedure in case you fulfill the admission criteria and get shortlisted for written test and/or interview. **Please note that the department reserves the rights to alter the eligibility requirements/selection process based on the applications received.**

Supporting documents may be sent via email/Speed Post to:

Mr. Bhupender Verma,  
Executive Assistant  
Mechanical Engineering Department  
School of Engineering  
Shiv Nadar University  
P.O. SNU, NH-91, Tehsil Dadri  
District Gautam Buddha Nagar, UP 201314  
**Telephone: 0120 266 3801 Ext. 701**  
[bhupender.verma@snu.edu.in](mailto:bhupender.verma@snu.edu.in)

For further enquiry or information visit our website [www.snu.edu.in](http://www.snu.edu.in)

OR

Contact Dr. Divya Shrivatsava, [divya.shrivastava@snu.edu.in](mailto:divya.shrivastava@snu.edu.in) (Faculty coordinator, Post Graduate Programs).