

School of Engineering
Department of Civil Engineering

Ph.D. Admission Announcement:
(For Session Starting from August 2020)
Monsoon 2020

Department of Civil Engineering in School of Engineering at Shiv Nadar University (SNU) invites applications for admissions in the Ph.D. program.

Broad Research Areas

Environmental Engineering: Water and wastewater treatment; air quality monitoring and modeling; solid & hazardous waste management; engine exhaust characterization and its fate analyses; health risk exposure assessment due to environmental contaminants.

Geotechnical Engineering: Geotechnical earthquake engineering; soil dynamics; constitutive modeling of frictional materials; physics of granular materials; poromechanics; computational geomechanics; soil-foundation-structure interaction; electronic cone penetrometer testing and direct-push sampling (CPT-DPT) for geotechnical and geoenvironmental subsurface investigation; geoenvironmental engineering.

Geoinformatics: Application of GIS and remote sensing in air-water-soil interactions; low-cost sensing systems for sustainable urban development including early warning systems for disaster management, urban morphology; impact of climate change on infrastructure.

Structural Engineering: Sustainable design and construction; structural performance assessment and rehabilitation; structural health monitoring; smart material and structures; damage quantification and prediction using piezo vibration characteristic; analytical formulation of integrated sensor-structure system; non-destructive evaluation and system identification; earthquake engineering; seismic hazard analysis; wave propagation; vibration control systems; stochastic earthquake analysis.

Transportation Engineering: Road safety law and policy; motor vehicle safety; road traffic injuries; transportation research (safety and pollution); human tolerance biomechanics; motor vehicle safety; road traffic injuries; sustainable urban transport; safer cities and low carbon transport.

Water Resource Engineering: Hydraulic structures; experimental analysis of hydraulic flow; channel control; hydraulic engineering; river engineering; advanced hydrology.

Descriptions of Civil Engineering Department and the research interests of our faculty members can be found at:

<https://civil.snu.edu.in/>

<https://civil.snu.edu.in/people/faculty>

Faculty members are also engaged in interdisciplinary work with research groups across schools at SNU.

Eligibility

Level of Education of Applicant

M. Tech./M.E. or equivalent in relevant discipline with a minimum of 60% marks or an equivalent grade point from a recognized technical institute or university. Applicants must have exceptionally good academic credentials and strong aptitude for research.

Selection Process

Eligibility criteria mentioned above are minimum standards and applications not meeting the same will be rejected. Shortlisted candidates will be required to demonstrate their knowledge and preparation through an on-campus written test and interview to be held in July 2020 (see **Important Dates** below). The written tests and interviews will be conducted at the Shiv Nadar University (SNU) campus in Dadri, Greater Noida, Uttar Pradesh.

Please note that not all candidates meeting the minimum eligibility criteria may be shortlisted. Applicants waiting for the qualifying examination results are also eligible to apply.

The shortlisted candidates will be entitled for **TA up to 3AC train fare** by the shortest route for return journey for appearing for the written test and interview. For outstation candidates, one day accommodation in SNU campus will also be arranged free of cost.

Syllabus for Written Test

The syllabus for the written test is same as Civil Engineering syllabus of GATE 2020. Please refer **CE: Civil Engineering** in <http://gate.iitd.ac.in/syllabi.php>. The syllabus for the applicants with a particular area of specialization in M. Tech. in Civil Engineering may be customized based on the applicant's specialization, however it is at the discretion of the department to choose a common/specialized syllabus.

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.

Application Instructions

Application Fees: All applicants to the Ph.D. program are required to pay a non-refundable application fee of ₹ 1,200.00 (one thousand two hundred only) by credit/debit card.

Please note that the University reserves the right to accept or reject any application based on departmental screening criteria, hence all applications may not be shortlisted for written examination and/or interview. No requests for refund of the application fee shall be entertained under any circumstance.

Application Instructions

All interested applicants must apply using our online system by clicking on “**Apply Now**” button. Please follow the instructions carefully.

- Fill all the mandatory fields
- **Online upload** of following documents is required
 - Passport-size color photograph
 - Current CV
 - All mark sheets/degree certificates (10th Standard onwards)
 - Standardized Examination certificate – CSIR, UGC, GATE, etc. (as 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 the following documents (you may include additional documents if required)
 - Completed form
 - At least one **reference letter** to support your application
 - Demand Draft for application fee (if online fee payment mode is not used)

Please write “CED - Ph.D. Application Monsoon 2020” near the bottom left of the envelope containing the above documents.

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

The address to which documents to be sent (**through speed post**) is:

Head of the Department

Department of Civil Engineering

At/PO: Shiv Nadar University

NH-91, Tehsil Dadri

Greater Noida, Gautam Buddha Nagar

Uttar Pradesh, PIN: 201314

For any queries, please write to Dr. Jagabandhu Dixit, PG Advisor and Faculty-in-charge, Post Graduate Programs (jagabandhu.dixit@snu.edu.in)

Important Dates

Last date for the receipt of completed application form & application fee	July 15, 2020
Written Tests and Interview	During 22-24 July, 2020
Declaration of Results	August 03, 2020
Fee Payment Deadline	August 15, 2020
Monsoon 2020 First Day	End of August, 2020

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 received after July 15, 2020 will be considered on a case by case basis subject to availability of assistantships.

APPLY NOW