

**DEPARTMENT OF CHEMICAL ENGINEERING  
SCHOOL OF ENGINEERING**

**Ph.D. Admission Announcement: MONSOON – 2023**

Department of Chemical Engineering, School of Engineering at Shiv Nadar Institution of Eminence (SNIOE) invites applications for admissions in the Ph.D. program (Duration: 5 Years). Students admitted for full time, completely residential Ph.D. program will receive a fellowship-stipend of ₹ 40,000/- per month for the first two years and ₹ 45,000/- for the last three years, subject to candidate fulfilling the departmental and university academic requirements.

**DEPARTMENTAL FACULTY**

**(<https://chemical.snu.edu.in/people/faculty>)**

- **Prof. R.P. Chhabra**  
**Distinguished professor**  
**Ph.D., Monash University, Melbourne, Australia.**  
Specialization: Rheology of complex fluids, Non-Newtonian fluid mechanics, Multiphase flows.
  
- **Dr. Sanjeev Yadav**  
**Associate Professor & Head**  
**Ph.D., Indian Institute of Technology Delhi**  
Specialization: Thermochemical conversion of biomass, Waste water treatment, Process optimization.
  
- **Dr. V.M. Rajesh**  
**Assistant Professor**  
**Ph.D., Indian Institute of Technology Delhi**  
Specialization: Multiphase flows in microfluidics, multiphase distributors, Biodiesel synthesis, syngas conversion to specialty chemicals, development of electrochemical sensors for detection of paraquat in water using microfluidics.
  
- **Dr. Dhiraj Garg**  
**Assistant Professor**  
**Ph.D., University of Strasburg, France**  
Specialization: Thermo-fluids and energy systems; Microfluidics and Nanotechnology; Numerical Modelling, Simulation and CFD; Mathematical Modelling; Process Safety and Process Intensification; Process System Engineering; Separation Science and Technology

➤ **Dr. Yamini Sudha Sistla**

**Assistant Professor**

**Ph.D., Indian Institute of Technology Kanpur.**

Specialization: Molecular Modeling; Biopolymers based Edible and Bio-degradable Coatings and Films; High Entropy Alloys for Gas Turbine and Aerospace Applications; Refinery Separation Processes (Gas & Liquid); CO<sub>2</sub> capture; Process Simulation, Optimization & Control.

➤ **Dr. Priyanka Katiyar**

**Assistant Professor**

**Ph.D., Indian Institute of Technology Roorkee**

Specialization: Energy and Environment Sustainability; Membrane Separation; Supercritical Fluid extraction; Catalysis and Reaction Engineering; Modelling and simulation; Industrial waste treatment and management.

➤ **Dr. Karan Gupta**

**Assistant Professor**

**Ph.D., Indian Institute of Technology Delhi**

Specialization: Flow of Newtonian and non-Newtonian fluids in Parallel Microchannels.

➤ **Dr. Ashish Kumar Thockchom**

**Assistant Professor**

**Ph.D., Indian Institute of Technology Guwahati**

Specialization: Fluid dynamics, particle self-assembly, flow visualization, photolithography, photonic crystals structures, piezoelectric materials, flexible electronic devices, inkjet printing, Micro- and bio-fluidics, Evaporating Drops.

➤ **Dr. Swaminath Bharadwaj Gourishankar**

**Assistant Professor**

**Ph.D., Indian Institute of Technology Madras**

Specialization: Computational modelling of responsive materials, solvation thermodynamics, interfacial phenomena and statistical mechanics.

➤ **Dr. Sanjay Krishna**

**Assistant Professor**

**Ph.D., Sardar Vallabhai National Institute of Technology Surat**

Specialization: MD simulations of polymers, Nanomilling, Polymer Nanocomposites, and Bio packaging.

## ELIGIBILITY REQUIREMENTS

### **Ph.D.**

- For Applicants having B. Tech./B.E. as Highest Qualification
- Excellent grades in B. Tech. / B.E. degree ( $\geq 8$  CGPA or 75% marks). A good GATE score, though not mandatory, would be an added advantage. Applicants waiting for their qualifying examination results are also eligible to apply. The final selection will be subjected to their qualifying exam result at the time of admission.
  
- For Applicants having M. Tech./ M.E. as Highest Qualification
- First Division in M.E./ M. Tech. or equivalent Master's degree in relevant discipline from a recognized Technical Institute or University. A good score in GATE or CSIR - UGC NET-JRF is desirable though not mandatory. Applicants waiting for their qualifying examination results are also eligible to apply. Their final selection will be subject to their qualifying exam result at the time of admission.

**TOTAL NUMBERS OF SEATS AVAILALABLE: 6**

## SELECTION PROCESS

The candidates will be shortlisted based on eligibility criteria mentioned above. Applications not meeting the eligibility criteria and/or incomplete applications will be summarily rejected. Please note that all the candidates meeting the minimum eligibility criteria may NOT be shortlisted. The final shortlisting will also be based on the merit of application material received such as academic qualifications, statement of purpose and reference letters. If the University decides to have face-to-face process for selection, then the shortlisted candidates will be entitled for re-imbusement of 3AC train fare (to and fro) against actual ticket for appearing in the selection process. For outstation candidates, one-day accommodation in SNU campus may be arranged at nominal cost. Transport may also be arranged from a few nearby metro stations. The selection process will include a written test and/ or an interview. If the University decides not to pursue in-person selection process, then the selection will be based on an in-depth Skype interview.

**Applicants waiting for the qualifying examination results are also eligible to apply. However, they must produce all the required proofs of eligibility at the time of admission. Failing to produce the necessary documents at the time of admission will lead to the automatic cancellation of admission.**

## SYLLABUS FOR WRITTEN TEST

The syllabus for the written test is same as Chemical Engineering syllabus of GATE 2023.

The syllabus for the applicants with a particular area of specialization in M.Tech. in Chemical Engineering may be customized based on the applicant's specialization; however, it is at the discretion of the department to provide a common/specialized syllabus for written test.

## IMPORTANT DATES (REVISED)

<b>Last date for the receipt of completed application form &amp; application fee</b>	<b>July 19, 2023</b>
<b>Written Test and/or Interview</b>	<b>July 26, 2023</b>
<b>Declaration of Results</b>	<b>July 28, 2023</b>

\* Tentative dates. Any change in dates of written test and interview will be notified to the applicants via email.

For any queries, please contact:

Dr. Yamini Sudha Sistla (PG Coordinator) at [yamini.sistla@snu.edu.in](mailto:yamini.sistla@snu.edu.in)

## TUITION FEE AND FINANCIAL ASSISTNCE

Fees and Financial Assistance: Detailed information about the fee structure and the nature of assistantships are available on the SNU website.

All full time PhD students admitted into the program shall receive a doctoral fellowship consisting of 100% tuition fee waiver and 70% hostel fee waiver. The student shall also receive a monthly stipend of ₹40,000 for first two years and ₹45,000 for 3rd, 4th, and 5th year subject to satisfactory performance. The assistantship is subject to satisfactory performance in the program evaluated continuously and compliance with all University regulations. The student has to pass the PhD qualifying exam before the end of 4th semester.

## APPLICATION INSTRUCTIONS

**Application Fees:** The applicants are required to pay a non-refundable application fees of Rs. 1,200 (One Thousand Two Hundred Only) by credit/debit card. Candidates may note that the University reserves the right to accept or reject any application based on the 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.

## HOW TO APPLY

All interested applicants shall apply online by clicking "[Apply Now](#)" button. Please follow the instructions carefully.

- Fill all the mandatory fields
- **Online upload** of following documents is required

- o Passport size recent color photograph
  - o Current CV
  - o All mark sheets and degree certificates (10th Standard onwards)
  - o Standardized examination certificate- CSIR, UGC, GATE etc. (If applicable)
  - o The application fee can be paid online or a Demand Draft can be sent to University.
  - o After online submission, print the completed form and send by speed post to the University address given below. A reference letter in support of your application will also be required
- Checklist of the documents to be sent by speed post/ courier (Any additional documents may also be included in support of the application) is as follows
- o Completed form
  - o All relevant documents
  - o Receipt of application fee paid
  - o At least one reference letter in support of application.

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

**Address for sending the documents:**

Mr. Vishnu Mishra  
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School of Engineering,  
Shiv Nadar institution of Eminence,  
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