



PhD Admission Autumn 2024



Department of Chemical Engineering IIT Indore, India

Announces admission to PhD Program for AY 2024-2025

Application Start Date : 24 May 2024

Application closes: 9 June 2024

The Department of Chemical Engineering at IIT Indore invites applications from motivated and research-oriented students for admission to its Ph.D. Program for Autumn semester 2024-2025. The list of faculty members and their research area is listed below.

S.No	Name	Research area and google scholar link
1	Abhilasha Maheshwari	<ul style="list-style-type: none">➤ Water Energy nexus interactions for circular economy and Sustainability➤ AI/ML in Chemical & Environmental Systems➤ https://scholar.google.com/citations?user=deYBcfgAAAAJ&hl=en
2	Gaurav Chauhan	<ul style="list-style-type: none">➤ Coupling of biochemical reactions to phase equilibria of proteins in intracellular environment➤ Computational enzyme engineering for biofuel production➤ https://scholar.google.com/citations?user=MdAFTWoAAAAJ&hl=en
3	Rajan Singh	<ul style="list-style-type: none">➤ Catalysis and reaction kinetics➤ CO₂ conversion to fuels➤ Hydrogen production➤ https://scholar.google.com/citations?user=JFf0XsYAAAAJ&hl=en
4	R. Kailasham	● Computational soft matter

		<ul style="list-style-type: none"> ● Polymer Physics and Rheology ● https://scholar.google.com/citations?user=PPv41igAAAAJ&hl=en
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Areas of research in the department

- CO₂ conversion to fuels and Hydrogen production
- Computational soft matter
- Polymer physics and rheology
- Computational enzyme engineering
- Biochemical reactions coupled to phase separation
- Smart water Infrastructure/ Digital Twins for operational excellence in water distribution systems

Application Procedure: (for Indian Students)

- Candidates must apply ONLINE through our website (<https://academic.iiti.ac.in:8443/nregistration.jsp>). This will generate a unique application number for each applicant.
- Application Fee: Kindly refer to the main Ph.D. Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>
- In case a candidate wishes to apply in more than one department, then a separate application must be filled for each department.
- **No TA/DA will be provided to the applicants if called for written test /interview.**
- **The shortlisted candidates should arrange to send a minimum of two letters of recommendation directly to rsingh@iiti.ac.in or provide in a sealed envelope before appearing for the interview.**
- Mere fulfillment of the essential qualifications does not guarantee admission to the Ph.D. program in the Department of Chemical Engineering. The selection will be based on the overall performance, which will include written exam, interview, academic background, suitability for research in the chosen field/area, research aptitude, communication skills, etc.
- **Shortlisted candidates will have to appear in-person for written exam and personal interview on IIT Indore campus (Tentative Date 20 June 2024). No online interviews will be conducted.**

For International Students: Kindly refer to the main Ph.D. Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>.

Detailed faculty profile can be seen from the department website (<https://chemical.iiti.ac.in/>)

Categories of Admission: Kindly refer to the main Ph.D. Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>.

Eligibility: Kindly refer to the main Ph.D. Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>.

Minimum Educational Qualifications (MEQs):

- Masters' degree (M.Tech./M.E./M.S.(Res.)) in Chemical Engineering, Material Science and Engineering, Mechanical Engineering, Chemical Technology (Polymer, Petroleum, Petrochemical etc.), Engineering Sciences, Energy Science and Engineering, civil engineering, environmental engineering, ceramic Engineering, Metallurgical Engineering, Mineral Processing and Engineering, Biotechnology, Biomedical Engineering, Rubber/ Oil/ Paint/Paper and Pulp/ Textile/ Food Technology, (with first division as defined by the awarding Institute/ University) **and GATE qualification.**
- Four year Bachelors' degree in Chemical Engineering or allied disciplines such as Material Science and Engineering, Mechanical Engineering, Chemical Technology (Polymer, Petroleum, Petrochemical etc.), Chemical Science and Technology, Industrial Chemistry, Engineering Sciences, Energy Science and Engineering, Ceramic Engineering, Metallurgical Engineering, Mineral Processing and Engineering, Biotechnology, Biomedical Engineering, Rubber/ Oil/ Paint/Paper and Pulp/ Textile/ Food Technology (with first division as defined by the awarding Institute/ University) **and a valid GATE qualification.**

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