Ph.D. ADMISSION

DEPARTMENT OF CHEMISTRY
INDIAN INSTITUTE OF TECHNOLOGY INDORE

(***Mar 2026 Advertisement***)

Applications are invited from highly motivated applicants for admission to the Ph.D. program in the **Departments of Chemistry** (https://chemistry.iiti.ac.in/), Indian Institute of Technology Indore (**IIT-Indore:** https://www.iiti.ac.in/) for 2026.

Last Date of Online Application for Ph.D.:	**22nd March 2026**
Date of Interview:	**24th March 2026**

❖ **Eligibility** [*Minimum Educational Qualifications and Qualifying Examination*]**:**

➢ **For Indian applicants:** Master's degree in Chemistry or other fields relevant to Chemical Sciences with first division **AND** valid **CSIR/UGC-NET-JRF** or valid **INSPIRE Fellowship** for Ph.D. or **valid Equivalent Fellowship** for Ph.D.

➢ Four-year BS degree in the relevant Department of Sciences or Bachelor's degree in the relevant Department of Engineering/Technology with first division and valid UGC-JRF OR valid CSIR-JRF qualification.

➢ **For International applicants:** Master's degree in Chemistry or other fields relevant to Chemical Sciences (with first division as defined by the awarding Institute/ University) **AND** valid **TOEFL/IELTS** OR equivalent qualification.

❖ **Categories of Admission available for this session:**

✓ **FA:** Applicants having valid **CSIR/UGC-NET-JRF** OR Candidate secured valid **INSPIRE Fellowship** *for Ph.D.* or **valid Equivalent Fellowship** for Ph.D. (The fellowship should be tenable at IIT Indore from the funding agency.)

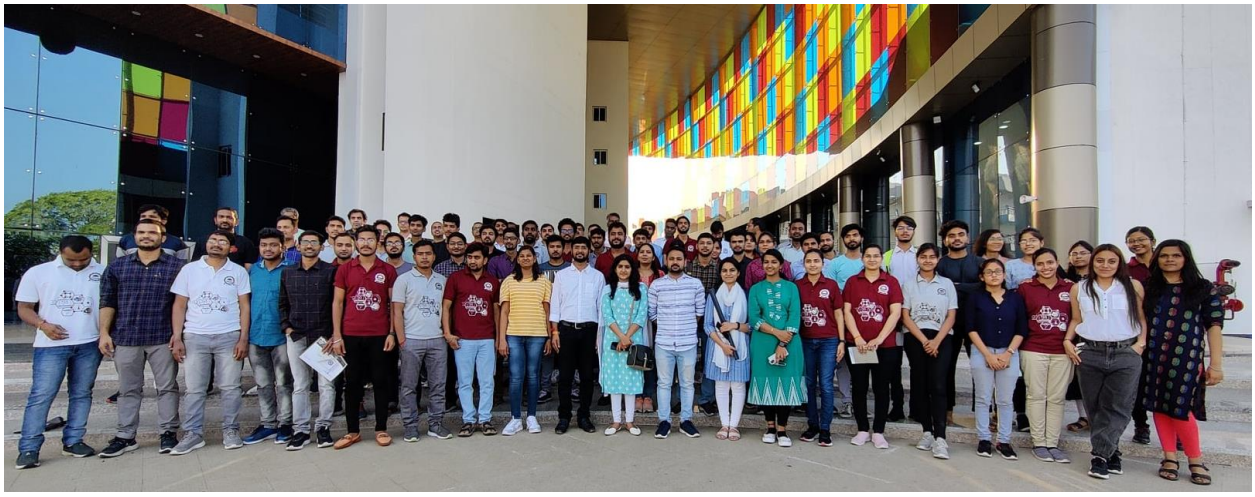
For more details about the admission category and eligibility, kindly refer to the main Ph.D. Advertisement section of the Institute, which is available at https://academic.iiti.ac.in/phdadvt.php

Application Procedure: Candidates must apply **ONLINE** through the institute website https://academic.iiti.ac.in:8443/nregistration.jsp Fee**:** https://academic.iiti.ac.in/phdadvt.php

Grant up to 1.2 Lakhs can be supported for international/national conference, foreign collaboration and exchange.

A detailed schedule regarding the interview will be given to the **shortlisted candidates** via email after the last date of application (**Note: Interviews will be in OFFLINE mode**). **Please note that the CSIR-JRF/UGC-JRF candidates can reimburse their 3-tier AC class for the shortest distance train fare (or up to the equivalent bus fare) to attend the interview after registering for the Ph.D. program at IIT Indore.**

Candidates must arrange recommendation letters from at least two referees and should request the referees to send recommendation letters in the given format (format of recommendation letter attached) to admission-chem@iiti.ac.in well before appearing for the interview. Mere fulfillment of the essential qualifications does not guarantee admission to the Ph.D. program in the Department of Chemistry. The selection will be based on overall performance, including written tests and interviews, academic background, suitability for research in the chosen field/area, research aptitude, and communication skills.



Come, Live and Explore Chemistry at Department of Chemistry, IIT Indore!

The Department of Chemistry offers Doctor of Philosophy (PhD) degree in Chemistry, where students require completion of course work and a thesis defense on original research performed under the direct supervision of at least one faculty member from the Department of Chemistry.

Department of Chemistry offers a variety of cutting-edge research areas[#] under broad areas:

- **Inorganic Chemistry**
- **Organic Chemistry**
- **Physical Chemistry**
- **Theoretical & Computational Chemistry.**

The Department of Chemistry at IIT Indore is very well equipped with research facilities and laboratories, along with a **Sophisticated Instrument Center** (**SIC**, for more details please visit (http://people.iiti.ac.in/~sic/) state-of-art sophisticated instrumentation facilities to assist research in almost all areas of chemistry and interdisciplinary research.

For further information contact: admission-chem@iiti.ac.in
(Chemistry Office Phone: 0731-660-5168/0731-660-3340/0731-660-3415)

Student's Life@IIT Indore: IIT Indore is a residential campus, where most of our students are staying inside the campus. Institute is committed to provide all the basic infrastructure facilities to support our research students/staff to excel best output. Campus Hostels, several eating outlets, service providers are available to students. For more details please visit: (https://iiti.ac.in/page/campus-facilities and www.iiti.ac.in)

Applicants are strongly advised to visit the profiles of all the [#]faculty members (https://chemistry.iiti.ac.in/people/faculty/) before applying for the Ph.D. program and are also encouraged to contact the interested faculty members to gain more information.

Details of the Faculty & Research at Department of Chemistry, IIT Indore

INORGANIC CHEMISTRY

Prof. Suman Mukhopadhyay
Research area: Metal complexes in therapeutics and drug delivery, nanostructured metallogel, molecular recognition, metalloenzymes, and porous materials.
Group website: https://suman729.wixsite.com/mysite
Email: suman@iiti.ac.in

Prof. Shaikh M. Mobin
Research area: Inorganic complexes, MOF & COF for energy storage, conversion, & generation, Crystal engineering, Applications in catalysis, bioimaging & sensing.
Group website: https://iiti.ac.in/people/~xray/index.html
Email: xray@iiti.ac.in

Prof. Sanjay Kumar Singh
Research area: Catalyst design & synthesis for H_2 production & storage, biomass transformation, organic transformations, CO_2 capture & utilization.
Group website: https://iiti.ac.in/people/~sksingh/
Email: sksingh@iiti.ac.in

Dr. Amrendra Kumar Singh
Research area: Ligand design in metal catalysis, Multidentate N-heterocyclic carbene ligands, Small molecule activation by transition metal complexes, Metal-ligand multiple bonds.
Group website: http://people.iiti.ac.in/~aks/
Email: aks@iiti.ac.in

Dr. Abhinav Raghuvanshi
Research area: Luminescent complexes of late transition metals and applications, Inorganic & organometallic TADF materials and inorganic conducting materials.
Group website: https://rabhinav9.wixsite.com/inorgmatlab
Email: r.abhinav@iiti.ac.in

Dr. Dipak Kumar Roy
Research area: Low-valent s- and p-block compounds and small molecule activation, Multiple bonded main group compounds, Organic-Inorganic hybrid polymers.
Group website: http://people.iiti.ac.in/~dipak.roy/
Email: dipak.roy@iiti.ac.in

ORGANIC CHEMISTRY

Prof. Rajneesh Misra
Research area: Organic pi-conjugated molecular systems, Organic Synthesis, organic/inorganic and organometallic materials for photonics & electronics.
Group website: https://rajneeshmisraiiti.wixsite.com/rajneeshmisra
Email: rajneeshmisra@iiti.ac.in

Prof. Apurba K. Das
Research area: Organic synthesis, Bio-organic chemistry, Supramolecular chemistry.
Group website: https://apurbadas.org/
Email: apurba.das@iiti.ac.in

Prof. Sampak Samanta
Research area: Asymmetric synthesis, Metal mediated synthetic transformation, Green chemistry, Total synthesis of biologically active compounds.
Group website: https://www.iiti.ac.in/people/~sampaks/
Email: sampaks@iiti.ac.in

Prof. Chelvam Venkatesh
Research area: Natural products, Heterocycles & carbocycles, Diagnostic applications of targeting ligands for cancers & inflammatory diseases, Drug-delivery, NIR, Medicinal chemistry
Group website: https://iiti.ac.in/people/~cvenkat/
Email: cvenkat@iiti.ac.in

Prof. Debayan Sarkar
Research area: Visible Light Catalysed Reactions, Electrocatalytic Organic Transformations,Total Synthesis of Natural Products and important biomolecules,Atom economic synthetic transformations
Asymmetric Dearomatisation Reactions
Group website: https://dslab.co.in/index.php
Email: sarkard@iiti.ac.in

Dr. Selvakumar Sermadurai
Research area: Photo-redox catalysis, Asymmetric synthesis, Synthesis of biologically active natural products, Green chemistry.
Group website: https://sites.google.com/view/selvargp/home
Email: selva@iiti.ac.in

Dr. Umesh A. Kshirsagar
Research area: Organic Synthesis, Photo-catalysis, Transition Metal-catalysis, & Electro-catalysis for Organic Synthesis & C-H Activation, CDC reaction, Total Synthesis of Bioactive molecules.
Group website: https://uakshirsagar.wixsite.com/synchem
Email: uakshirsagar@iiti.ac.in

PHYSICAL CHEMISTRY

Prof. Anjan Chakraborty
Research area: Study of bio-nano interface by spectroscopic and imaging techniques.
Group website: https://anjanchakrabortyii.wixsite.com/anjanciiti
Email: anjanc@iiti.ac.in

Prof. Tushar K. Mukherjee
Research area: Fluorescence spectroscopy and imaging, Photoactivated Reactions.
Group website: https://kantitushar2.wixsite.com/tushar
Email: tusharm@iiti.ac.in

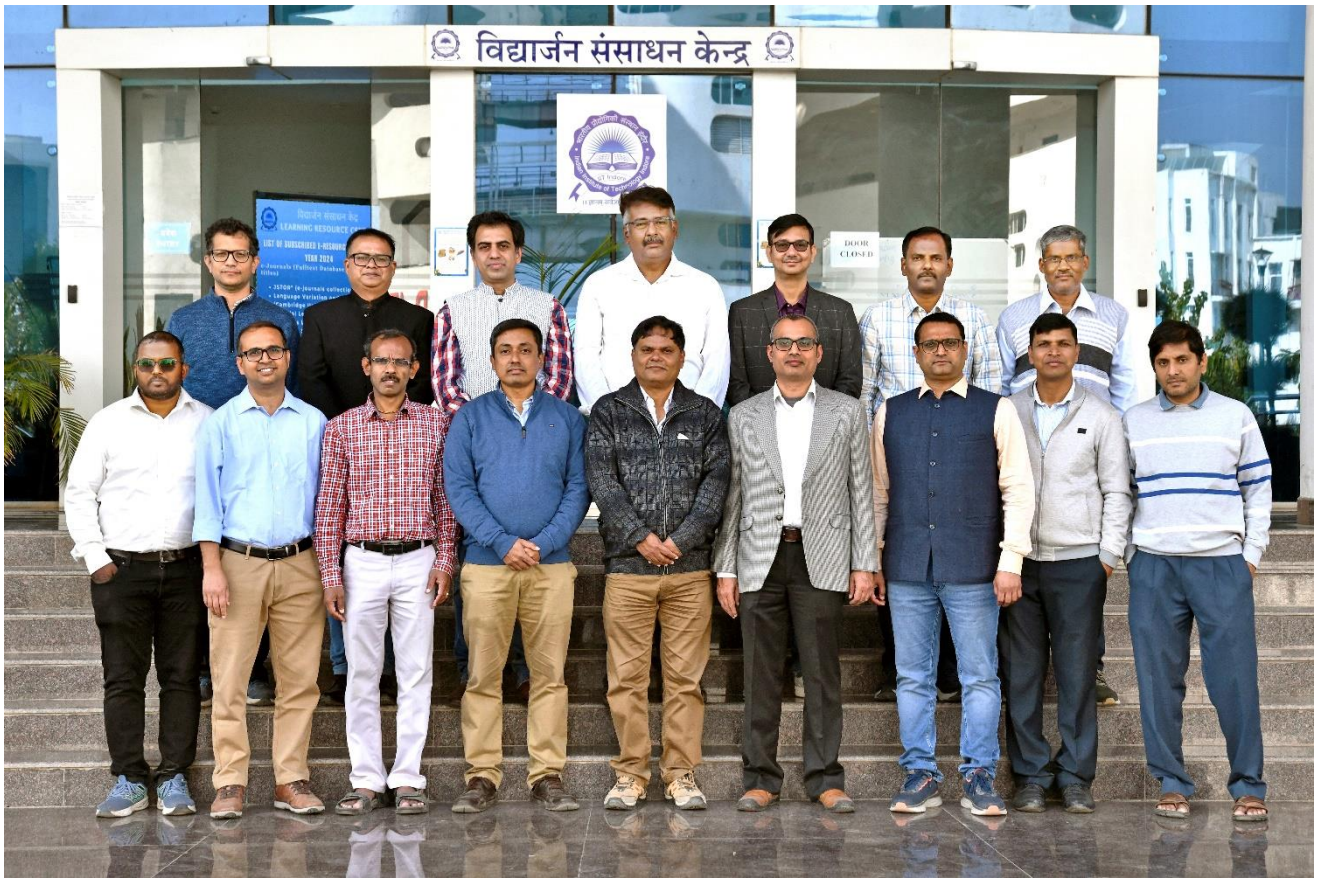
Dr. Tridib Kumar Sarma
Research area: Nanostructured materials, Polymer composites, Biomimetic materials chemistry.
Group website: https://tridibsarma.wixsite.com/college-sorority-1
Email: tridib@iiti.ac.in

Dr. Pravarthana Dhanapal
Research Area: Solid and liquid-state batteries, Solid-state functional and wearable devices.
Group website:
https://sites.google.com/iiti.ac.in/pravarthana-dhanapal/home Email: dpravarthana@iiti.ac.in

THEORETICAL & COMPUTATIONAL CHEMISTRY

Prof. Biswarup Pathak
Research area: Application of Machine learning and Artificial Intelligence in nanocluster for Catalysis, Dual-ion Batteries, and Molecular electronics.
Group website: https://iiti.ac.in/people/~biswarup/
Email: biswarup@iiti.ac.in

Prof. Satya S. Bulusu
Research area: Developing Orbital Free DFT methods, Kinetic Energy Functionals, TDDFT, parallelization on hardware to solve QM problems, Potential Energy Surfaces, ML methods.
Group website: https://iiti.ac.in/people/~sbulusu/
Email: sbulusu@iiti.ac.in



Faculty at Department of Chemistry, IIT Indore

Applicants are strongly advised to visit the profiles of all the #faculty members (https://chemistry.iiti.ac.in/people/faculty/) before applying for the Ph.D. program. They are also encouraged to contact the interested faculty members to gain more information.

Format of Recommendation Letter

(To be printed on the letterhead and signed by the referee with his/her seal.)

To: Date:
The PhD Selection Committee,
Department of Chemistry,
IIT Indore.

I am writing this letter of recommendation for **Mr/Ms._____ _____(Full Name of Applicant)** who has applied for the PhD Program of Chemistry Department at IIT Indore.

Details of Referee	
Name	
Position and department	
Institute/university	
Email id and Telephone/Mobile No.	

Comments on Applicant's attributes	
In what capacity do you know the applicant?	
How long have you known the applicant?	
Please comment on the subject/specialization knowledge of the applicant.	
How would you characterize the applicant's field of expertise?	
Please comment on the relevant elements in relation to the applicant's research. (If applicable)	
Please comment on the applicant's ability to work alone and in a team.	
Please comment on general character of the applicant.	
Please comment on the special attributes that the referee may have noticed in the applicant at a personal level.	
Please comment on the applicant's major abilities, strengths and weaknesses.	
Please comment on the applicant's ability to communicate in English.	
Please comment on your assessment of the applicant's potential or suitability to the PhD program in Chemistry.	
Please provide any other comment that would help the committee to make decision on applicant's suitability for the PhD program.	

Please contact me if you need any further information.

Date: Name of Referee:

Place: Signature and seal