



Ph.D. ADMISSION

DEPARTMENT OF CHEMISTRY INDIAN INSTITUTE OF TECHNOLOGY INDORE (Spring Semester AY 2021-2022)

Applications are invited from highly motivated applicants for admission to the Ph.D. program starting in Jan 2022, in the **Departments of Chemistry** (<https://chemistry.iiti.ac.in/>), Indian Institute of Technology Indore (IIT-Indore: <https://www.iiti.ac.in/>) for spring semester of AY 2021-2022.

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 as defined by the awarding Institute/ University) AND valid CSIR-JRF/UGC-JRF OR Equivalent Fellowship OR valid GATE 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.

For more details regarding eligibility, kindly refer to the main Ph.D. Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>.

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

Application Procedure: Candidates must apply **ONLINE** through the institute website <https://academic.iiti.ac.in:8443/nregistration.jsp>. For Application Fee please refer the main PhD advertisement of the institute. <https://academic.iiti.ac.in/phdadvt.php>.

The shortlisted candidates must arrange recommendation letters from at least two referees and should request the referees to send recommendation letters to admission-chem@iiti.ac.in well before appearing for the interview.

Mere fulfillment of the essential qualifications does not guarantee admission in the Ph.D. program in the Department of Chemistry. The selection will be based on the overall performance, which may include an interview, academic background, suitability for research in the chosen field/area, research aptitude, communication skills, etc.

Last Date of Online Application:	07th November 2021
Tentative Date of Interview:	10th/11th November 2021

Detailed schedule regarding the interview will be intimated to the shortlisted candidates after last date of application (**Note: Interviews will be in online mode**).



Come, Live and Explore Chemistry at 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 research in various frontier areas of **Physical, Inorganic and Organic Chemistry** such as **fluorescence spectroscopy and fluorescence imaging, computational and theoretical chemistry, self-assemblies, main group chemistry, bio-inorganic chemistry, catalysis & energy, transition metal chemistry, organometallics, nanoscience, metalloids and molecular recognition, organic synthesis, natural product and medicinal chemistry, C-H activation, organic electronics, bioorganic chemistry, polymers, biomimetic materials, photo-redox catalysis, asymmetric synthesis**, and many more.

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.

Candidates 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 encouraged to contact the interested faculty members to gain more information.

For further information contact: admission-chem@iiti.ac.in
(Chemistry Office Phone: 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)



Details of the Faculty at Department of Chemistry, IIT Indore

<p>Prof. Rajneesh Misra, Professor 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</p>	<p>Prof. Suman Mukhopadhyay, Professor Research area: Transition-metal coordination chemistry, Bioinorganic and Metallogel Group website: https://suman729.wixsite.com/mysite Email: suman@iiti.ac.in</p>
<p>Dr. Apurba K. Das, Associate Professor Research area: Organic synthesis, Bio-organic chemistry, Supramolecular chemistry. Group website: http://people.iiti.ac.in/~apurba/daslab.htm Email: apurba.das@iiti.ac.in</p>	<p>Dr. Anjan Chakraborty, Associate Professor Research area: Study of bio-nano interface by spectroscopic techniques. Group website: https://anjanchakrabortyii.wixsite.com/anjanciiti Email: anjanc@iiti.ac.in</p>
<p>Dr. Tridib Kumar Sarma, Assistant Professor Research area: Nanostructured materials, Polymer composites, Biomimetic materials chemistry. Group website: https://tridibsarma.wixsite.com/college-sorority-1 Email: tridib@iiti.ac.in</p>	<p>Dr. Sampak Samanta, Associate Professor Research area: Asymmetric synthesis, Metal mediated synthetic transformation, Green chemistry, Total synthesis of biologically active compounds. Group website: https://www.iiti.ac.in/people/~sampak/ Email: sampaks@iiti.ac.in</p>
<p>Dr. Tushar K. Mukherjee, Associate Professor Research area: Photoluminescence spectroscopy, Fluorescence imaging. Group website: https://kantitushar2.wixsite.com/tushar Email: tusharm@iiti.ac.in</p>	<p>Dr. Biswarup Pathak, Associate Professor Research area: Applied computational chemistry, Fuel Cells, Battery, Spintronics, Catalysis, DNA Sequencing. Group website: https://iiti.ac.in/people/~biswarup/ Email: biswarup@iiti.ac.in</p>
<p>Dr. Shaikh M. Mobin, Associate Professor 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</p>	<p>Dr. Chelvam Venkatesh, Associate Professor Research area: Synthesis of natural products, heterocycles & carbocycles, diagnostic applications of new targeting ligands for cancers & inflammatory diseases. Group website: https://iiti.ac.in/people/~cvenkat/ Email: cvenkat@iiti.ac.in</p>
<p>Dr. Satya S. Bulusu, Associate Professor Research area: Computational chemistry, Structural evolution of nanoclusters and nanoalloys, AI and Machine learning in Chemistry, Algorithms and parallel computing. Group website: https://iiti.ac.in/people/~sbulusu/ Email: sbulusu@iiti.ac.in</p>	<p>Dr. Sanjay Kumar Singh, Associate Professor Research area: Catalyst design & synthesis for H₂ production & storage, biomass transformation, organic transformations, CO₂ capture & utilization. Group website: https://iiti.ac.in/people/~sksingh/ Email: sksingh@iiti.ac.in</p>
<p>Dr. Amrendra Kumar Singh, Assistant Professor 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</p>	<p>Dr. Abhinav Raghuvanshi, Assistant Professor 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</p>
<p>Dr. Dipak Kumar Roy, Assistant Professor 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</p>	<p>Dr. Selvakumar Sermadurai, Assistant Professor 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</p>
<p>Dr. Umesh A. Kshirsagar, Assistant Professor Research area: Transition metal catalysis and photo-redox catalysis for Organic Synthesis, Cross dehydrogenative coupling, C-H activation and oxidative coupling, Green chemistry. Group website: https://uakshirsagar.wixsite.com/synchem Email: uakshirsagar@iiti.ac.in</p>	