

Department of Chemical Sciences (DCS)

IISER Kolkata

PhD Advertisement for Spring 2027

Applications are invited from motivated candidates to pursue research in the broad fields of Chemical Sciences.

Minimum Eligibility Criteria: Applicants must satisfy one of the following:

- (i) Master's degree with at least 55% (50% for the reserved category) aggregate marks in Chemistry or Physics or Mathematics or Biology.
- (ii) 4-year BS with 75% (70% for the reserved category) aggregate marks with Chemistry as one of the subjects.

Final-year MSc/MS/BS students who have yet to obtain their degree may also apply; however, they must complete the MSc/MS/BS degree at the time of admission with the requisite aggregate marks.

The selection of candidates will be in accordance with the GoI norms. Candidates belonging to the respective reserved category must submit the relevant certificates and documents.

Selection Channels:

Self-funded: In addition to meeting the minimum eligibility criteria, candidates must have their own PhD fellowship, such as NET-Category-1/any other equivalent fellowships.* The research areas of departmental Faculty profiles and Scientific Officers can be found at the URL (<https://www.dcsiiserkol.com/faculty> and <https://www.iiserkol.ac.in/web/faculty/chemical-sciences>).

Institute Funded: Apart from satisfying the minimum eligibility criteria, candidates must have a valid rank in one of the following national-level exams: GATE/NET-Category-2/NET-Category-3/INSPIRE/Project-JRF/others. Institute/Project-funded positions are available in the following areas/topics and **ONLY**** with the following faculties/research groups:

SL. No.	Faculty Name**	Institute-Funded Positions available	Research Area	Webpage
1	Prof. Debansu Chaudhuri	1	Molecular self assembly, supramolecular chemistry	https://www.iiserkol.ac.in/~dchaudhuri/
2	Prof. Mousumi Das	1	Theoretical and Computational Chemistry	TCOOE Group
3	Prof. Pradip Kumar Tarafdar	1	Supramolecular Chemistry, Chemical Biology	Research MEMFACE

4	Prof. Sumit Khanra	1	Inorganic Chemistry: Synthesis, Structural, Magnetic, Spectroscopic studies, Electronic Structure & Bioinspired Chemical Transformation	
5	Prof. Prasun K. Mandal	1	Synthesis of organic fluorophores, meta-fluorophores, understanding of optical behaviour of photoluminescent crystals. Or Ultrafast dynamics and ultrasensitive single particle spectroscopy of quantum dots and perovskites.	https://www.iiserkol.ac.in/~prasunchem/
6	Prof. Supratim Banerjee	1	Supramolecular self-assembly, luminescent materials, Bio-analyte sensing, photochemistry	Home dcs-iiserk
7	Prof. Debasish Halder	1	Bio-organic supramolecular chemistry, peptide mimetics	https://www.iiserkol.ac.in/~deba_h76/
8	Prof. Pradipta Purkayastha	1	Synthesis, analysis, and applications of photonic crystals, studies on excited state electron and energy transfer	https://sites.google.com/view/pradiptapurkayastha-nspp/home/
9	Prof. Swadhin Mandal		Photoredox Catalysis using Odd Hydrocarbon Molecules	https://www.swadhinmandal.com/
10	Prof. Venkataramana Mahalingam		Electrocatalysis and CO ₂ fixation for value added chemicals	https://www.iiserkol.ac.in/~nanolab/
11	Prof. Pradip Kr. Ghorai	1	Molecular Dynamics Simulation of Complex Chemical Systems such as Ionic Liquids, Deep Eutectic Solvents and Azeotropes	
12	Prof. Debasis Koley	1	Computational Chemistry, Homogeneous catalysis, structure and reactivity	https://ccmmlab072.wixsite.com/my-site
13	Prof. Sanjio S. Zade	1	Organic Synthesis, Conjugated systems, Organic Electronics	https://www.iiserkol.ac.in/~sanjiozade/
14	Dr. Subila K B	1	Design and excitonic engineering of inorganic semiconductor nanostructures in perovskites and chalcogenides for advanced optoelectronic, ferroelectric, and energy applications.	IISER Kolkata Home

*Please note that fulfilling the minimum essential criteria does not ensure that a candidate will be called for the interview. Additional short-listing criteria may be set by

the Department based on candidates' academic records, experience, and research interests.

****For institute-funded selection mode:** The research interest of the candidate must be aligned with the research areas/topics of the available positions (see the above table).

PhD application portal opens: 20.09.2026 or earlier

Application portal closes: 08.10.2026

Publication of shortlist for the Interview: 09.10.2026

Selection Interview window: 26.10.2026 - 28.10.2026

Publication of PhD interview results: 03.11.2026

Mode of Interview: The mode of the interview will be 'Offline'.

Additional benefits of the PhD program at DCS, IISER Kolkata:

- A PhD student may be sponsored to attend an international conference abroad, subject to the availability of the institute's funds.
- State-of-the-art instrument facility; medical and counselling facility; 24*7 internet, electricity, library facility; student-monitored mess and private food courts; Cricket, Football, and Athletic Grounds; Gymkhana.
- Tennis/Table Tennis/Volleyball/Badminton/Basketball courts, Swimming pool, R. N. Tagore auditorium for academic and cultural events.