Doctor of Philosophy Programme (Ph.D.) Department of Chemical Sciences

Ph.D. Advertisement for Spring Semester 2024 Under the **Institute Fellowship** Scheme

The Department of Chemical Sciences (DCS) at IISER Kolkata invites applications for regular Ph.D. programme in the Spring semester, 2024 in the disciplines of Inorganic, Organic, Physical, and Theoretical chemistry.

Minimum Eligibility Criteria: Bright and motivated candidates who have passed M.Sc. examination with minimum 55% marks in any field of Chemistry or Physics or Mathematics. In addition, the candidates must have valid **GATE** Score Card, CSIR/UGC-NET **LS** or other Equivalent National Eligibility Exam.

*Please note that fulfilling the minimum essential criteria does not ensure that a candidate will be called for the interview. **Additional** short-listing criteria might be set by the department based on academic records, experience and research interest of the candidates.

**Reservations for SC/ST/OBC/EWS/DIVYANG candidates are applicable as per Government of India rules.

Interview Date: November 16, 2023 (Thursday) Reporting time at LHC: 9:30 AM [LHC = Lecture Hall Complex, IISER Kolkata]

Mode of Interviews: The mode of interview will be 'Off-line.

Please note the following:

The Institute Fellowships are **ONLY** available with a selected number of faculty members that are provided as additional information.

Candidates with CSIR/UGC-NET JRF, INSPIRE fellowship or other Equivalent Fellowships should **NOT** apply under this category.

ADDITIONAL INFORMATION

Please see below details of faculty members under whom the Institute Fellowship is available.

Chemical Biology:

Faculty Name	Research Area		Webpage	Position
Dr. Pradip	Supramolecular	Chemistry,	https://www.iiserkol.ac.	01
Kumar Tarafdar	Chemical Biology		in/~tarafdar/	

Inorganic Chemistry:

Faculty Name	Research Area	Webpage	Position
Swadhin Mandal	Development of Metal-Free Catalyst in Activation of Greenhouse Gas Molecules	https://www.iiserkol.ac. in/web/en/people/facult y/dcs/swadhin- mandal/#gsc.tab=0	01
Sumit Khanra	Bioinspired Inorganic Catalysis. Small molecules like O ₂ , H ₂ O Activation. C-C bond formation Catalysis.	1 I	01

Physical Chemistry:

Faculty Name	Research Area	Webpage	Position
Priyadarsi De	Polymer Chemistry	https://priyadarside441.wi xsite.com/acedemic	01
Debansu	Organic Semiconductors,	https://ooliiserk.wixsite	01
Chaudhuri	Supramolecular assembly	.com/dclab/	
Prasun K.	Single molecule spectroscopy and	https://www.iiserkol.ac.	01
Mandal	ultrafast dynamics of nanomaterials,	in/~prasunchem/	
	Quantum Dots, and Perovskites		
Pradipta	Physical Chemistry and Spectroscopy	www.pradiptapurkayast	01
Purkayastha	(SERB sponsored project)	ha.com	

Theoretical Chemistry:

Faculty Name	Research Area	Webpage	Position
Debasis Koley	Computational chemistry research on reactivity and catalysis	https://www.iiserkol.ac. in/web/en/people/facult y/dcs/koley/#gsc.tab=0	01
Amlan K. Roy [*]	Density functional theory, Electronic structure theory, Quantum information theory, Quantum confinement	1	01

*Understanding of quantum mechanics/chemistry and some programming knowledge is desirable.