



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान कोलकाता

Indian Institute of Science Education and Research Kolkata

An Institute of National Importance of the Ministry of Education, Govt. of India

Mohanpur – 741 246

www.iiserkol.ac.in

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ADVERTISEMENT FOR FACULTY POSITION

The Indian Institute of Science Education and Research (IISER) Kolkata, an Institute of National Importance, was established by the Ministry of Education (MoE), Government of India in the year 2006. The basic mandate of the IISERs is to provide quality science education and to conduct research in basic and frontier areas of science, involving both undergraduate and postgraduate students.

IISER Kolkata invites applications from Indian Nationals and Overseas Citizen of India (Foreign Nationals for a fixed period on contract basis) to fill-up FACULTY positions at the level of **ASSISTANT PROFESSOR Gr.I** (for all departments), **ASSISTANT PROFESSOR Gr.II** (for CDS, DES & HSS), for the thrust areas and specific credentials required is given below against each department. The Institute is seeking outstanding, young, energetic early-career researchers who combine impactful science with a strong commitment to undergraduate and graduate teaching and mentorship. Successful candidates will have a strong publication record, a clear independent research vision, and a plan to contribute to excellence across our BS–MS, MS, Integrated PhD, and PhD programs and demonstrate capability to attract sponsored research project. **Teaching:** Basic and Advanced Courses in addition to other core teaching responsibilities. Active participation in departmental and Institute activities is expected. Demonstrating the ability to generate ideas with potential commercial value or any previous industry experience, including but not limited to working with industry during a PhD or Postdoc, or an Industrial postdoctoral research, may offer an added advantage.

Department	Thrust areas	Specific credentials required
Biological Sciences (DBS)	1. Chemical Biology	Ph.D. in Chemical Biology, Master's in Chemistry or

	<p>Research areas</p> <ul style="list-style-type: none"> • Precision medicine and discoveries; Structural Biology, AI/ML algorithms for drug targets and therapeutics • Cancer Biology; Stem cell therapeutics and regenerative medicine • Imaging & Probes: Development and application of chemical probes for bioimaging and other applications <p>2. Bioinformatics</p> <p>Research areas</p> <ul style="list-style-type: none"> • Bioinformatics and computational biology methods related to biological systems • Microbial bioinformatics, Systems Biology, and AI. • Omics: genomics, proteomics, and metabolomics related to personalized medicine and diagnostics <p>3. Physiology and Biochemistry</p> <p>Research areas: metabolic, cardiovascular, neurological, or hepatic disease, cancer biology; immunology;</p> <p>4. Microbial Genetics</p> <p>Research areas: Anti-microbial resistance (AMR); Pathogenicity and infectious diseases; Food</p>	<p>Biochemistry; Minimum three years postdoctoral research in Chemical Biology, including published papers in Q1 journals.</p> <p>Must hold a Ph.D. in Bioinformatics. and an M.Sc. degree in Biological Sciences or Computer Science. A minimum of three years of dedicated postdoctoral research experience in the relevant field of Bioinformatics, including published papers in Q1 journals.</p> <p>Ph.D. in Biological Sciences, Master's in Physiology or Biochemistry. A minimum of three years of dedicated postdoctoral research experience in the relevant field, including published papers in Q1 journals.</p> <p>PhD in Microbiology or Biological Sciences, Masters in Microbiology; including</p>
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	<p>microbiology, microbial genetics and microbial physiology</p> <p>5. Developmental Biology</p> <p>Research areas: genetic and epigenetic regulation of embryogenesis and organogenesis, reprogramming, and stem cell biology across diverse model organisms and plants, including published papers in Q1 journals.</p> <p>6. Biotechnology</p> <p>Research Areas: Gene editing, Molecular Biology, recombinant DNA technology for vaccines and regenerative medicine, tissue and cell engineering, genome diagnostics</p> <p>7. Evolutionary biology</p> <p>Research areas: Molecular and quantitative approaches to address important topics in evolutionary biology using modern tools such as sequencing, AI, imaging, mass spectrometry, tomography, etc.</p>	<p>published papers in Q1 journals.</p> <p>PhD in Developmental Biology; Masters in Biological Sciences</p> <p>Must hold a Master's and Ph.D. in Biological Sciences or Biological engineering, including PhD and Postdoctoral expertise in research areas mentioned above, including published papers in Q1 journals.</p> <p>PhD in Evolutionary Biology and must hold a Master's in Biological Sciences, including published papers in Q1 journals.</p>
<p>Chemical Sciences (DCS)</p>	<p>1. Chemical Biology</p> <p>Research areas</p> <p>Candidate should have expertise in DNA, RNA synthesis, analysis technology, tissue engineering, animal model study, especially in better drug targets and treatment options as well as better biomarkers and diagnostic strategies or related branches of study.</p> <p>2. Multi-dimensional Spectroscopy, Spectroscopy of ultrafast processes</p>	<p>Ph.D. in Chemical Biology, Master's in Chemistry or Biochemistry; Minimum three years postdoctoral research in Chemical Biology.</p>

	<p>Research areas Candidate should have expertise in coherent multidimensional spectroscopic techniques, such as 2D IR, 2D-Electronic and 2D-Electronic Vibrational Spectroscopies, Ultrafast (femtosecond) stimulated Raman spectroscopy, time-resolved resonance Raman, coherent anti-Stokes Raman (CARS), and hyper Raman spectroscopy. Applicants must have the necessary expertise to develop, set up and maintain such experimental facilities.</p> <p>3. AI and ML in chemistry</p> <p>Research areas Candidate should have expertise in AI and ML in chemistry. Candidate should have expertise in artificial intelligence in chemistry or soft robotics that involves an intricate knowledge at the interface of chemistry and engineering to develop planetary rovers for extraterrestrial simulations to microsurgeries without affecting vital organs at unreachable places in human body.</p> <p>4. Main group Inorganic Chemistry</p> <p>Research areas Candidate should have extensive expertise in the synthetic main group chemistry with background in physical inorganic chemistry and reaction mechanism and inorganic spectroscopy. Candidate should have extensive expertise in the area of main group elements based electronic materials and their applications.</p>	<p>Ph.D. in Spectroscopy of ultrafast processes, Master's in Chemistry; Minimum three years postdoctoral research in Spectroscopy.</p> <p>Ph.D. in AI and ML in chemistry, Master's in Chemistry or material science; Minimum three years postdoctoral research in AI/ML.</p> <p>Ph.D. in main group chemistry, Master's in Chemistry; Minimum three years postdoctoral research in Chemistry.</p>
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	<p>5. Process Chemistry and rare-earth extraction</p> <p>Research areas Candidate should have expertise in industry level Process Chemistry and rare-earth extraction. The applicant must have the expertise to develop and maintained the systems.</p> <p>6. Membrane Science and Separation Technologies</p> <p>Research areas Candidate should have expertise in industry level membrane filtration technology, including hollow fiber, capillary, and flat sheet membrane synthesis and fabrication. The applicant may engage in research activities on wastewater systems, advanced water treatment (both ultra-filtration and nano filtration membrane processes), seawater desalination, water recycling, and chemical analysis for process control and water quality monitoring.</p>	<p>Ph.D. in Process Chemistry and rare-earth extraction, Master's in Chemistry or chemical technology; Minimum three years postdoctoral research in Process Chemistry and rare-earth extraction.</p> <p>Ph.D. in Membrane Science and Separation Technologies, Master's in Chemistry or chemical technology; Minimum three years postdoctoral research in Membrane Science and Separation Technologies.</p>
<p>Computational and Data Sciences (CDS)</p>	<ol style="list-style-type: none"> 1. Data Science, Natural Language Processing (NLP), and Artificial Intelligence with applications in Science (e.g., physics, chemistry, biology, earth sciences, climate and environmental studies, advanced materials, space sciences) 2. Machine Learning with focus on Artificial Neural Networks, Deep Learning, Natural Language Processing, Computer Vision (including Augmented Reality (AR) and Virtual Reality (VR)) 3. Artificial General Intelligence (AGI), Foundation Models (models trained on large datasets and can be adapted for a wide range of tasks) 4. AI Governance, including Ethics and Biases in AI, Explainability and Interpretability in AI, Responsible AI 5. Quantum Computing, High-Performance Computing (HPC), Computer Organization and Architecture, Neuromorphic Computing, Accelerator Design for Scientific Computing (e.g., development of GPU accelerators for science-informed neural networks), Green Computing (development of eco-friendly computing technologies), Computational Science (including 	

	<p>development of specialized hardware, operating systems, and databases for scientific computing): https://en.wikipedia.org/wiki/Computational_science</p> <p>6. Scientific Data Security (cryptography, network security, etc.)</p> <p>7. Robotics and Automation in Science, Science Education Technology (e.g., development of simulators and virtual labs)</p>
Earth Sciences (DES)	<ol style="list-style-type: none"> 1. Geodynamics (Model Solid Earth systems through integration of multidisciplinary data - e.g. in the fields of geophysics, geochemistry, petrology, structural geology, thermochronology, magnetostratigraphy and mineral physics) 2. Hydrogeology (Groundwater-surface water interaction, groundwater flow modeling, impact of climate change in hydrogeology) 3. Sedimentology and sequence stratigraphy (Field-based sedimentological studies of depositional systems, basin analysis, and diagenesis) 4. Micropaleontology (Taxonomy and biostratigraphy) 5. Marine Sciences with specialization in modern processes (Role of the continental and atmospheric inputs in regulating modern ocean chemistry. Processes at the land-ocean continuum. Sources, abundances and applications of trace metals and their isotopes in seawater) 6. Geophysics with specialization in potential fields (Gravity, Magnetism, Magnetotellurics and its integration with geophysical and geological processes.) 7. Geochemistry - near surface environment, hard rock, organic (Isotope Enabled Organic Geochemistry, Proxy development, Geochemical cycles at the surface of Earth and its interaction with climate using elemental and radiogenic/metal stable isotopic composition of rocks, soils, sediments, rivers and lakes. Enhanced silicate rock weathering (ERW) and carbon dioxide removal (CDR) through elemental and isotope geochemistry.) 8. Remote Sensing and GIS (Remote sensing of Earth surface processes; hyperspectral and multispectral analysis; spatial modeling and data assimilation; geospatial big data and machine learning applications in Earth and environmental systems.) 9. Tectonics (Fracture mechanics addressing geologic and geophysical problems across scales along various tectonic margins; integration of structural geology, geomorphology, geodynamics; numerical and analog modeling of tectonic processes; Experimental rock deformation and rheology in diverse tectonic settings) 10. Geology of natural resources (Genesis of Ore, Coal, Petroleum, and critical minerals with focus on the formation, distribution, and exploration.) 11. Climate modelling (Isotope enabled GCM, applications of greenhouse gas measurements in the framework of inverse modelling.)

	12. Reactive transport modelling (Reactive transport modelling of inorganic species and isotopes in fluids of the natural environment (rivers/weathering profiles, oceans/groundwater etc.), by incorporating the role of relevant physical, chemical and biological processes) 13. Geobiology (Understanding biological processes in the critical bioremediation).
Humanities and Social Sciences (HSS)	1. Applied Economics / Econometrics 2. English
Mathematics and Statistics (DMS)	1. Statistics and Probability: All areas 2. Mathematics: Representation Theory, Harmonic Analysis, Geometric Analysis, Differential Geometry, Algebraic Topology.
Physical Sciences (DPS)	1. Experimental atomic, molecular, and optical physics 2. Experimental and theoretical quantum optics 3. Experimental condensed matter physics with expertise on the growth of single crystals and/or epitaxial thin films 4. Experimental and theoretical gravitational physics 5. Experimental (instrumentation) and observational astronomy and astrophysics 6. Experimental and theoretical quantum information processing 7. Experimental and theoretical soft matter physics/Complex Systems.

The details of the vacant positions:

Name of the post	Vacancy					
	UR	SC	ST	OBC-NCL	EWS	Total
Assistant Professor	12	04	02	07	02	27**

** Note: Horizontal reservation of prescribed 4% for PwBD candidates with benchmark disabilities as per the relevant Act & the Govt. of India instructions as applicable are to be made.

Application Process:

Candidates possessing the requisite qualifications and relevant experience are required to [APPLY ONLINE](#). Last date for submitting on-line application is **30.06.2026**. (1730 hrs. IST).

Candidates must submit “**Research statement**”: Up to 3 pages addressing current and proposed research plans, “**Teaching and Mentoring statement**”: 1-2 pages addressing past experiences and future plans for teaching and mentoring undergraduates, graduates and postdocs and a “**Service statement**”: 1 page addressing past experience and future plans for service to the department, institute, and discipline.

Candidates must also submit a **current CV** that contains:

- Date of Birth
- Undergraduate, Postgraduate, and PhD degree years and areas
- "Impact Factor" of all listed publications. If unavailable, it should be indicated.
- Indicate "Scopus Q" status (Q₁, Q₂, Q₃, or Q₄), where applicable
- Indicate "co-first authors", "corresponding authors" in each publication, where applicable
- Include short summary of work done during PhD and postdoc tenures

At least three referee names, affiliation and full contact details from persons well acquainted with the candidate's work should be included in the CV.

Information on Reservations:

1. Reservation for SC/ST/OBC(NCL)/EWS/PwD and others will be as per Govt. of India norms.

2. The Institute reserves the right to fill/partially fill or not to fill any vacancies or cancel the selection process wholly or partially at any stage without assigning any reason. The vacant positions in any or all of the categories may be increased or decreased, at the time of each round of selection depending upon the availability of post at that stage. No separate notification will be issued for it.

3. The candidates seeking reservation benefits available for SC/ST/OBC(NCL)/PwD/EWS categories must ensure that they are entitled to such reservation as per the prescribed eligibility criteria of Government of India and must attach the Caste/Category/Income and Asset/PwD Certificate (as applicable) issued by the competent authority in the prescribed format of the Government of India.

4. The Institute follows the **Central list** for SC/ST and OBC(NCL).

5. In case of OBC candidates, the reservation is admissible only to candidates having "Non-Creamy Layer" status.

Further, Candidates seeking reservation benefit under OBC-NCL category must ensure that:

a. Their caste is listed in the central list of OBCs

[http://www.ncbc.nic.in/User_Panel/CentralListStateView.aspx]

b. They are entitled to such reservation as per eligibility prescribed in Govt. of India orders

c. Possess the valid certificates in the format prescribed by Govt. of India in support of their claim.

6. (a) NCL certificate for OBC candidates should not be older than one year i.e. the candidate shall obtain and submit the relevant certificate, for the previous financial year (2025-26), which is issued on or after 01/04/2026.

(b) Candidates called for the selection process will have to produce "Caste certificate" in the format prescribed by the Government of India, "Non-Creamy Layer" certificate valid as **on date of interview** and Caste Validity Certificate (as applicable).

7. The candidates belonging to reserved category are required to attach the Category certificate in the prescribed format of the Government of India, issued by the competent authority, not below the rank of a Tahsildar or from a first-class Magistrate of the place of domicile of the candidate clearly authenticating the category to which they belong to.

8. The reservations for differently-abled persons (PwD) are as per the Govt. of India. They shall be required to produce a medical certificate in the prescribed form issued by the competent medical authorities for the purpose of employment. Persons suffering from not less than 40% of the disability in a, b, d, and e category as per the Department of Personnel and Training Office Memorandum No. 36035/02/2017- Estt.(Res) dated 15th January 2018 shall only be eligible for the benefit of reservation and other relaxations, if any, as permissible under the rules.

9. The Institute encourages applications from qualified women candidates.

Selection Process:

Faculty at various levels are recruited across Departments through Advertisements. The concerned Department screens applications received by the respective Departments. The Departmental Faculty Advisory Committee (DFAC) shortlists candidates based on the area required, research and academic performance, future research plans, efficiency of communication, discussion and quality/aptitude for teaching, research papers published in reputed journals, other publications (books, chapters in book, other than refereed journal articles), potential as researcher/creative worker etc. The short-listed candidates may be called for presentation and interaction with the faculty of the concerned department(s). The Institute Faculty Advisory Committee (IFAC) reviews all applications, along with the DFAC recommendations, and shortlists candidates to appear before the selection committee. The candidates should fulfil the minimum eligibility criteria as on the last date of submission of applications. Additional Criteria may be set by departments at shortlisting stage.

Only shortlisted candidates will be informed by the Institute (by email) about the interview schedule as and when it is conducted.

Based on the requirement of the concerned department, applications received will be processed by duly constituted selection committees at regular intervals.

Eligibility Criteria, Pay and Service Conditions:

1) Assistant Professor Grade-II (to be recruited on contract):

Eligibility criteria:

- a) PhD with first class, 60% marks or equivalent CGPA at the preceding degree in the appropriate branch*, with an excellent academic record throughout.

- b) Minimum 4 publications as first author in Q₁ journals [3 publications in Q₁ journals for Computational and Data Sciences] in the area of the post/department applying.

Salary Structure:

- a) Academic Pay Level 10 with an initial pay of ₹ 70,900/-.
- b) After one year of post-PhD experience, the candidates shall be placed in Academic Pay Level 11 with an initial pay of ₹ 73,100/-, subject to evaluation of performance and antecedents.

2) Assistant Professor Grade-I:

Eligibility criteria:

- a) PhD with first class, 60% marks or equivalent CGPA at the preceding degree in the appropriate branch*, with an excellent academic record throughout.
- b) At least 3 years of teaching/research/industry experience (in the area of the post/department applying), excluding the experience gained while pursuing PhD.
- c) Minimum 6 publications as first author in Q₁ journals [4 publications in Q₁ journals as first author for Mathematics & Statistics, and Computational and Data Sciences,] in the area of the post/department applying.

Salary Structure:

- a) Academic Pay Level 12 with an initial pay of ₹ 1,01,500/-.
- b) On completion of 3 years of regular service as Assistant Professor Grade-I at Academic Pay Level 12, shall be considered for moving to Level 13A1 with an initial pay of ₹1,31,400/-, subject to evaluation of performance and antecedents and will, however, continue to be designated as Assistant Professor Grade-I.

***Preceding Degree in the appropriate branch should be as per the following table:**

Department	Preceding degree in the following branch
DBS	As mentioned in the DBS thrust areas.
DCS	As mentioned in the DCS thrust areas.
CDS	Computer Science/ Data Science / related areas
DES	Both undergraduate and post-graduate degrees should be in Earth Sciences (Geology, Geophysics or related subjects)
HSS	1. Economics 2. English
DMS	Statistics/ Mathematics/Related areas
DPS	Physics

Probation and superannuation:

Faculty positions at IISER Kolkata have a prescribed period of probation of one year, which may be extended by the appointing authority. The age of superannuation for all faculty positions is 65 years.

Following fringe benefits are also available for the new faculty members as per the Institute norms:

1. In addition to the pay (as mentioned above), other allowances like DA, HRA, TA, and Employer contribution towards New Pension Scheme (NPS) shall be as per the GoI norms from time to time. For further queries you may please contact Office of the Faculty Affairs (dofa.office@iiserkol.ac.in).
2. Leave Travel Concession (LTC) for visiting home town and anywhere in India as per Govt. of India (GoI) rules along with leave encashment facility as per entitlement.
3. Children Education Allowance as per GoI rules.
4. Reimbursement of medical expenses of self and dependent family members as per Institute rules from time to time.
5. Cumulative professional development allowance (CPDA) of ₹ 3.0 lakhs for period of 3 years may be available to every member of the faculty to meet the expenses for participating in both National and International Conferences, paying membership fees for professional bodies, buying books and contingency expenses.
6. Reimbursement of Relocation charges: As per Institute norms.
7. State-of-the-art equipment for teaching and research.
8. Attractive start up and matching research grants.
9. Computers and accessories, stationeries and books, consumables and minor equipment, travel support for academic visits and collaborative works, etc. as a part of the Academic Research Fund as per Institute norms.
10. Reimbursement of telephone bills to faculty members as per Institute rule and eligibility.

General information for the applicants:

1. Regular faculty positions are open to Indian Nationals and Overseas Citizens of India (OCI) only.
2. Appointment of Foreign Nationals for a fixed period on contract basis is permissible.
3. Candidates are solely responsible for ensuring that they meet the essential qualifications, experience, and other requirements specified in this advertisement as on last date of submission of application before applying for the post(s). They are entirely accountable for the authenticity of the information and documents submitted. If, at any stage of the selection process or even after appointment, it is discovered that the candidate does not meet the prescribed qualifications and experience, their candidature or appointment will be immediately cancelled or terminated.

4. Candidates are advised to fill the information carefully in the online application form. Institute will neither be responsible for any wrong information furnished nor accept any subsequent requests for making any corrections by the candidate(s). The candidate(s) shall be solely responsible for the information filled in the online application form. No change/deviation, whatsoever, will be entertained.
5. Incomplete/ partially filled application forms will not be considered. The decision of the Institute authorities in such cases will be final.
6. The applicants are required to upload all the supporting documents mandatory to complete the applications. Separate sheet, if required, may be attached along with application.
7. Mere fulfilling the minimum eligibility criteria mentioned herein may not entitle a candidate to be called for interview.
8. The Institute reserves the right to consider to fill or not to fill positions in any of the above/and or any other specialization(s)/Department(s). The Institute has the right to set higher norms, while short-listing, taking into account the specific requirement of the individual department.
9. The decision/recommendation of the respective committees shall be final, in this regard.
10. The Institute reserves the right to reject any application without assigning any reason whatsoever and to withdraw any advertised post(s) at any time without assigning any reason, thereof.
11. No information will be sent to those candidates who are not short listed for interview.
12. In case, the candidate has passed and secured CGPA under any other point scale (other than 10-point scale), then the certificate issued by the authorized signatory (not the Mentor/Supervisor/Head of the Department) of the Institute/University to the effect of having secured first class in such degree must be attached. Alternately, the CGPA may be equivalently converted on 10-point scale for determination of eligibility.
13. The above mentioned CGPA/Percentage/Degree should be awarded by a recognized University/Institute (having the authority to confer/award such degree).
14. The qualifications prescribed should have been obtained after attending regular courses from recognized Universities/Institutions.
15. All qualifications, experiences and other criteria will be considered as on the closing date of online application forms.
16. The pay will be fixed as per the recommendation of the selection committee. Higher initial pay may be considered in case of exceptionally qualified and deserving candidates as per GoI norms.
17. Candidates called for appearing in the selection interview will be paid Second AC Railway fare from place of duty or the nearest Railway Station from the residence to IISER Kolkata and back by the shortest route within India.

18. All shortlisted candidates are required to attend the interview in person. However, candidates residing outside India may be permitted to attend the interview online, provided they have recently visited the Institute for a faculty candidate seminar or other interactions with the relevant Department.
19. Applicants who are employed (regular/contractual) in Government, Semi-Government Organizations or Institutions should send their applications THROUGH PROPER CHANNEL else they will be required to produce a NO OBJECTION CERTIFICATE from their employer at the time of interview. The candidates will also be required to submit the VIGILANCE CLEARANCE CERTIFICATE.
20. However, canvassing in any form may disqualify the applicant.
21. All the appointments are subject to verification of caste certificates, credentials, academic qualifications, experience, conduct, and medical fitness followed by police verification of the selected candidates. The appointment orders issued by the Institute to the finally selected candidates shall be provisional until the clearance of character and antecedents, verification of caste certificates are received from the appropriate authority and subject to being found medically fit as per the rules. During the period of Institute service, if the Institute, on its verification, finds any discrepancy in the claims made by the candidate, besides departmental proceedings, suitable legal action shall also be initiated as per Government of India Rules.
22. The Institute reserves the right to revise or modify at any time any conditions of the advertisement by issuing a suitable amendment or corrigendum, as it may deem fit. Such a corrigendum/addendum about this advertisement shall be published only on the Institute's website. It shall be the sole responsibility of the applicants to check our website at regular intervals for any updates. No interim enquiries/correspondence/communication of any sort will be entertained on the matter.
23. The Institute may consider candidates whose specialization and specific qualifications are outside those stated herein, provided these persons have an outstanding record.
24. Development efforts (technology, product, process, protocols, etc.) that have reached a stage of maturity viz., peer-reviewed demonstration of proof-of-concept e.g., in the form of acceptance by a funding agency or an industry for enhancement of Technology Readiness Level (TRL), deployment, etc., may be considered as equivalent to an original research publication in Scopus (or equivalent) indexed journals.
25. Any legal proceedings in respect of any matter of claim or dispute arising out of this advertisement and / or an application in response thereto can be instituted only in Kolkata and courts/tribunals/forums at Kolkata only shall have sole and exclusive jurisdiction to try and adjudicate such cases/disputes.

26. Candidates are advised to send an email to dofa.office@iiserkol.ac.in in case of any clarification/difficulties regarding the submission of the application through online mode.

**Dean of Faculty Affairs
IISER Kolkata**