



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (IACS)

A Deemed to be University under de novo category

Jadavpur, Kolkata-700032

Admission notice for the PhD program in the Autumn Semester 2026

Advertisement No. Acad/ PhD/Autumn Sem-2026

Date: 12.03.2026

Applications are invited for regular full-time PhD students to the PhD Program in Autumn Semester of 2026 under different Schools, namely Applied and Interdisciplinary Sciences, Biological Sciences, Chemical Sciences, Material Sciences, Mathematical and Computational Sciences and Physical Sciences, of IACS (A deemed to be University).

Eligibility:

1. 55% or equivalent in masters is mandatory for general candidates, while for SC/ST/OBC (non-creamy layer)/Differently-abled and other categories 50% marks is necessary.
2. Minimum eligibility criteria as per UGC rules. Qualification and eligibility requirements for each School are given separately (*vide infra*).
3. Selection of the regular full-time students will be done on the basis of their academic record, their performance in the appropriate national level examination, and finally, their performance in the written test and/or interview as decided by the respective Schools.
4. Relaxation of the selection criteria for the candidates belonging to SC/ST/OBC (non-creamy layer)/Differently-abled and other categories will be levied according to the norms of UGC and Government of India.
5. Merely satisfying the eligibility criteria does not guarantee that a candidate will be shortlisted for interview.

Fellowship: As per IACS/CSIR/UGC/INSPIRE rules.

Age limit: Should be below 28 years on the closing date of application. Age relaxation is applicable as per Government of India rule.

Nationality: The applicant must be an Indian citizen.

Selection Procedure:

1. Applicants will be shortlisted on the basis of merit by different Schools. Only shortlisted candidates will be informed via email and called for a written test and/or interview (to be decided by the School) for the final selection. IACS holds full right of choosing a candidate and even not selecting any, in case suitable applications are not received.
2. Vacancies given for each School are based on number of positions available in individual research groups in different research areas. Selection depends on the past academic record, performance in examination/interview by the school and also the availability of posts in particular research areas as opted by the shortlisted candidate.

Application Procedure: Applications have to be made online at <https://phdapplicationiacs.iacs.res.in/>. Any queries may be sent to phdcell_iacs@iacs.res.in. The details of the online application and its procedure are given in the IACS website. Exact date and time of Admission Test/or Interview for each School will be announced on the IACS website.

Last Date of Submission of Applications: **April 30, 2026.**

Tentative date of interview: 01 - 12 June, 2026 which is subject to change according to the decision of IACS.

For further information in this regard, please contact Academic Office (Phone: 24734971; Extn: 2236, Email: phdcell_iacs@iacs.res.in).

Application/Examination Fees: Rs. 1200/- (Rs. 600/- for SC/ST candidates) will have to be transferred electronically to the account of IACS (Name of the Account: Indian Association for the Cultivation of Science University, A/C no: 37739525415, State Bank of India, Jadavpur University Branch, Branch Code: 0093. IFSC: SBIN0000093). The electronic transfer reference number should be mentioned in the application form.

Mode of Payment: Payment can be made through either of the following options:

- 1) Directly by NEFT bank transfer if an applicant can avail Online Banking facility;
- 2) By depositing the amount at any SBI Counter having CBS facility.

Fees to be paid during admission: One time admission fee (Rs. 15000/-) and caution deposit (Rs. 10000/-) to be paid during the time of admission. The rest of the annual fees for the first year to be paid within 6-months from the date of joining. The fee structure and timeline for payment of fee for the subsequent years are given at the IACS website.

Scholarship: All regular PhD students who join are eligible for scholarship from IACS/CSIR/UGC/INSPIRE as per rules.

Details of the PhD positions and the qualification and eligibility details for the different Schools are given below.

School of Applied and Interdisciplinary Sciences (SAIS)

No. of vacancies	Broad Research Area (Subject Code)	Essential Qualifications
02	Organic Synthesis, bioconjugation chemistry and drug delivery (SAIS01)	M.Sc. in Chemistry with CSIR- NET (JRF) or other fellowships or Integrated MS-PhD Fellowship of IACS etc
01	Cancer Biology and Onco-Immunology (SAIS02)	M.Sc. in Biology with CSIR-NET (JRF) or other fellowships or Integrated MS-PhD Fellowship of IACS etc
03	(i) Design and Synthesis of Luminescent Monomers / Polymers: Photophysical Properties and Device Applications (SAIS03)	M. Sc. in Science with CSIR-NET (JRF) or M. Tech. in Mechanical or Polymer Engineering with fellowships.

	(ii) Structural and Visco-elastic Properties of Polymer Networks (SAIS04). (iii) Electrochemistry on the Surface of Conducting Polymer (SAIS05).	
02	Polymer & Supramolecular Chemistry-Functional Materials (SAIS 06)	MSc in Chemistry with Fellowship (CSIR, UGC, Integrated MS-PhD Fellowship of IACS etc.)
01	Quantum Devices Based on Perovskite Nanocrystals (SAIS 07)	M. Sc. in Physics, Specialization in Solid State Physics/Electronics The candidate should have own fellowship.
01	Precision Polymer Assemblies and Functions (SAIS 08)	MSc in Chemistry with fellowship from CSIR/UGC/INSPIRE/ or other funding agency
03	(i) Advanced Materials for Light-Matter Interaction (SAIS09) (ii) Nanoelectronics and Quantum Device Engineering (SAIS10) (iii) Functional Microcrystals for Optoelectronics, (SAIS11)	i) M.Sc. in Chemistry/Physics with CSIR-NET (JRF) or equivalent national-level fellowship. (ii) M.Sc. in Physics with CSIR-NET (JRF) or equivalent national-level fellowship (iii) M.Sc. in Chemistry with CSIR-NET (JRF) or equivalent national-level fellowship
02	(i) Synthesis and investigation of optoelectronic properties of π-conjugated molecules for advanced device applications (SAIS 12) (ii) Organic Field Effect Transistors for Light Emission Charge transport and Sensing applications (SAIS 13)	(i) Master in Chemistry with JRF / INSPIRE Fellowships (ii) Master in Physics / Electronics / Materials Science with JRF/INSPIRE Fellowships

School of Biological Sciences (SBS)

No. of vacancies	Broad Research Area (Subject Code)	Essential Qualifications
2	Bio-Organic Chemistry/Biomedicine in Therapeutics	MSc in Chemistry/Biochemistry/Allied Subject domain with Fellowship (CSIR/ UGC//DBT/others)
1	Targeting mitochondria in breast cancer therapy	(MSc in life sciences, Biochemistry, Zoology, Genetics. The candidate should be NET-JRF (UGC/CISR), DBT-JRF qualified with own fellowship for PhD

School of Chemical Sciences (SCS)

Number of vacancies	Broad Research Area (Subject Code)	Essential Qualifications
6	Inorganic Chemistry (SCS-IC)	MSc (Inorganic Chemistry/Chemistry) with CSIR-JRF/UGC-JRF
6	Organic Chemistry (catalysis, synthesis of natural products and bioactive compounds) (SCS-OC)	MSc (Chemistry/Organic Chemistry/ with CSIR/UGC/Inspire or equivalent) JRF

1	Physical Chemistry (SCC-PC)	MSc in Chemistry/Physics with CSIR/UGC/Inspire JRF
5	Supramolecular Chemistry (including acyclic and macrocyclic systems) (SCS-SC)	MSc (Organic/Inorganic Chemistry/Chemistry) with CSIR/UGC-JRF
11	Theoretical and Computational Chemistry (including AI/Machine learning and quantum chemistry, Multiscale modelling of materials, Simulation of proteins, metalloproteins and protein-protein complexes) (SCS-TC)	M.Sc. in Chemistry/Physics/ Biotechnology/Biophysics/ Computational biology/ Chemical Engineering / Engineering Sciences/ Materials Science with NET/CSIR/UGC/DBT/ICMR/NET JRF/DST-INSPIRE or equivalent JRFs (1 ANRF funded JRF position available; 2 INT-PHD positions available on ground and excited state chemical phenomena)
1	Spectroscopy/Biochemistry/Biophysics (SCS-SB)	M.Sc.Chemistry/Biotechnology/Biophysics/Biochemistry with NET/CSIR/UGC/DBT/ICMR/NET/DST-INSPIRE or equivalent JRFs
1	Chemical Biology (SCS-CB)	MSc (Biotechnology/ Lifescience/ Microbiology with CSIR/UGC/Inspire or equivalent JRFs

School of Material Sciences (SMS)

Number of vacancies	Broad Research Area (Subject Code)	Essential Qualifications
1	Photophysical properties of light emitting nanocrystals (SMS-01)	MSc Chemistry with NET
1	4D STEM, EELS and Crystallography Study in Atomic Resolution Microscope (SMS-02)	MSc Physics with NET
2	Structural, spectroscopic and electrochemical studies of Battery electrodes (SMS-03)	MSc Chemistry/Physics with NET/ INSPIRE
1	Designing new quantum materials, single crystal growth, quantum magnetism including study of quantum spin liquids (SMS-04)	M.Sc. in Physics with CSIR/UGC/INSPIRE fellowship and/or outgoing IACS MS/PhD student with adequate criteria.

School of Mathematical and Computational Sciences (SMCS)

Number of vacancies	Broad Research Area (Subject Code)	Essential qualification
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1	Applications of Generative AI Models/Large Language Models.	M.S./M.Tech. in Computer Science or a relevant area. National eligibility test (e.g. GATE/NET) qualified. Candidates should have UGC NET JRF fellowship or other external PhD funding (internal funding not available).
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School of Physical Sciences (SPS)

Number of vacancies.	Broad Research Area (Subject Code)	Essential Qualifications
3	Experiments Condensed Matter Physics – Quantum materials with nontrivial electronic topology and long-range orders (charge density waves, superconductivity, magnetism etc.) (SPS-01)	MSc in physics with CSIR/UGC fellowship
1	Theoretical Condensed Matter Physics. (SPS-02)	Net CSIR (JRF) along with M. Sc in Physics.
2	Experimental condensed matter physics: coupled charge – spin - phonon physics in two-dimensional quantum materials, semiconductor device physics, (SPS-03)	MSc in Physics/ Materials Science/ Electronic Science with CSIR-NET-JRF / UGC NET-JRF, or any other individual fellowship.
1 (ONE)	Quantum Field Theory at Finite Temperature, Particle Cosmology (SPS-04)	UGC/CSIR NET with JRF: Rank up to 75
2 (TWO)	Exploring Quantum Magnetism in Strongly Correlated Electron materials (Experimental) (SPS-05)	M.Sc. in Physics along with NET-JRF (UGC or CSIR), INSPIRE (Provisionally Selected), or any other individual fellowship
2	Experimental Condensed Matter Physics- (a) Neuromorphic computing in memristor devices (b) Quantum Hall effect in thin film heterostructures for spintronics (SPS-06)	MSc in Physics with CSIR-NET-JRF / UGC-NET-JRF (qualified) or UGC-NFSC (National Fellowship for Scheduled Caste students) or any other individual fellowship.

PhD Coordinator