

Office of the Dean Research and Consultancy
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103

Project on: "*Exploring fundamental and exotic properties of materials in computer: Direction to laboratory experiments*" under the PAIR Network titled "An Eight Institution Partnership for Advancing Materials Research and Development: From Fundamental Design to Emerging Applications in Structural, Functional and Biomaterials Spaces"

[Sponsoring Authority: ANRF, Govt. of India]

Department of Mathematics
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103

Ref: Advt. No. CH 1888, dated 20.11.2025

[Institute Project Code: DRC/ANRF-PAIR (4211)/CHEM/PB/010/25-26]

Interested candidates are requested to appear for walk in interview on 28.11.2025 at 11:00 AM, for the following post in the Department of Mathematics, Indian Institute of Engineering Science & Technology (IEST), Shibpur, Howrah-711 103.

Name of the post: N-PDF

No of post – One (01)

Essential Qualification:

- i. The applicant must have obtained Ph.D. degree from a recognized University. Those who have submitted their PhD thesis and are awaiting award of the degree are also eligible to apply. However, such candidates, if selected, will be offered lower fellowship amount till they qualify the eligible degree as per ARNF norms.
- ii. B. Sc. Hons degree in Physics and M. Sc. in Physics from a recognized University/Institute with minimum 60% marks or 6.5 CGPA on a 10-point scale (throughout from class X to the qualifying degree)
- iii. The upper age limit for the fellowship is 35 years at the time of the submission of application, age will be calculated as on 31st December 2025. Age relaxation of 5 (five) years will be given to candidates belonging to SC/ST/OBC/Physically Challenged & Women candidates.

Desirable Qualification:

- i. Ph.D. in Physics (thesis submitted/awarded) in Condensed Matter Physics or a closely related discipline. Proven expertise in areas such as quantum Hall effect, topological materials, mesoscopic physics, or quantum transport. Strong publication record in reputed journals.
- ii. Experience in analytical/numerical studies of 2D electron gases, Landau levels, or Chern topological invariants.
- iii. Familiarity with basic numerical methods and coding language such as C/Matlab/Fortran. Good communication and scientific writing skills.

Fellowship: Rs. 80,000/- per month + 30% HRA.

Age Limit: Maximum 35 years (Upper age limit is relaxable up to 5 years for SC/ST/OBC/Woman and Physically handicapped candidates).

Duration of the Fellowship Two years

Interested eligible candidates should mail soft copies of the application letter in plain paper, recent bio-data, mark sheets and certificates. All documents should be self-attested. Physical documents will be verified at the time of joining. The selection will be canceled if any discrepancies are found in the documents at the time of physical verification.

Venue and Date of the interview: Office of the Dean (R&C), IEST, Shibpur on 28.11.2025 at 11:00 AM

Note:

1. Soft copies of the application letter, bio-data, marksheets and certificates should be sent through e-mail in advance by November 27, 2025 at 5:00 pm to: Prof. Ujjal Debnath, Department of Mathematics (PI), (E-mail id: ujjal@math.iiests.ac.in).
 2. All applications must mention a valid e-mail id and phone number for communication (if required).
 3. Short listing may be done before the interview.
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CORRIGENDUM

Date of Application Extended up to December 15, 2025

Venue and Revised Date of the interview: Office of the Dean (R&C), IEST, Shibpur on 17.12.2025 at 11:00 AM

Project on: "Exploring fundamental and exotic properties of materials in computer: Direction to laboratory experiments" under the PAIR Network titled "An Eight Institution Partnership for Advancing Materials Research and Development: From Fundamental Design to Emerging Applications in Structural, Functional and Biomaterials Spaces"

Hub: Indian Institute of Science, Bangalore

Spokes: Indian Institute of Engineering Science & Technology (IEST), Shibpur

Desirable Qualification:

1. Ph.D. in Physics/Mathematics (thesis submitted/awarded) in Condensed Matter (Theory or/and Experiment), High Density Exotic Matter in Astrophysical Systems or closely related discipline.
2. Experience in analytical/numerical/experimental studies of electron gases, Landau levels, or Chern topological invariants.
3. Experimental skills related to fabrication of nanoscale devices, and related instrumentation.
4. Familiarity with numerical methods/simulations and coding language such as C/Python/Fortran/Matlab.
5. Good communication and scientific writing skills.

Interested candidates are requested to submit application to Prof. Ujjal Debnath, Department of Mathematics (PI), (E-mail id: ujjal@math.iiests.ac.in) and Dr. Dwipesh Majumder, Department of Physics, (E-mail id: dwipesh@physics.iiests.ac.in) by 15.12.2025, for the post in the Department of Mathematics and the Department of Physics, Indian Institute of Engineering Science & Technology (IEST), Shibpur, Howrah-711103, in collaboration with the Department of Physics, Indian Institute of Science (IISc), Bangalore-560012.


Dean (R & C)

(W. Code DRC-023/25-26)

 **Prof. Pratik Dutta**
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