

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

Project on: "Design and Analysis of Artificial Intervertebral Disc using Advanced Materials and Structures"

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

Ref: Advt. No. CH 1893, 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 Mechanical Engineering, Indian Institute of Engineering Science & Technology (IEST), Shibpur, Howrah-711 103.

Name of the post: Junior Research Fellow (JRF)

No of post – One (01)

Essential Qualification: B.E or B.Tech / M.E. or M.Tech with First class in Mechanical Engineering/Production Engineering/Metallurgy and Materials Engineering/Biomedical Engineering or equivalent from a recognized University/Institute with minimum 60% marks or 6.5 CGPA on a 10-point scale are eligible to apply for the JRF positions with valid GATE/ NET. For SC/ST/PwD category, a minimum 55% marks or 6.0 CGPA on 10-point scale is required with valid GATE/NET.

Desirable Qualification (s): Candidates having experience and published works in the domain of orthopaedic biomechanics and biomaterials are preferred. Skills in handling medical image processing software, computer-aided design and engineering tools, simulation tools for material design, material testing and characterisation.

Job Description

- Carry out research on material design, simulation, testing and characterisation.
- Develop virtual anatomical bone models from medical image data.
- Develop implant-bone assembly and simulate/test under physiological loading conditions.
- Coordinate with the research teams and cluster institute for project activities and attend training as necessary.
- Create essential documentation for projects and manuals.
- Assisting PI and Co-PIs with various activities towards completion of the project.
- Maintain tools and laboratory facilities and support students in related areas.

Fellowship: Rs. 37,000/- p.m. + Rs 11,100/- (30% HRA) = Rs 48,100/- per month

Age Limit: Maximum 32 years, (Upper age limit is relaxable up to 5 years for SC/ST/OBC/Woman and Physically handicapped candidates).

Duration of the Project: Five years from the date of commencement or till the project continues whichever is earlier

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: Dr. Bidyut Pal, Department of Mechanical Engineering (PI) (E-mail id: bidyutpal@mech.iests.ac.in).
2. All applications must mention a valid e-mail id and phone number for communicating date of interview.
3. Short listing may be done before the interview.

(W. Code DRC-028/25-26)

