

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

**Project on: "Investigating the Feasibility of Using Biodegradable Mg-Alloy as an Implant Material for Treating Femoral Neck Fractures"**

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 1885, 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:** Senior Project Associate

**No of post - One (01)**

**Essential Qualification:** Four years Bachelor's Degree in Mechanical Engineering/Production Engineering/Metallurgy and Materials Engineering/Biomedical Engineering or equivalent from a recognized university/Institute with minimum of 80% aggregate marks (8.5 CGPA on a 10-point scale) and four years' experience in R&D in industrial and academic institutions or S&T organizations and scientific activities and services  
OR

Master's Degree in Mechanical Engineering/Production Engineering/Metallurgy and Materials Engineering/Biomedical Engineering or equivalent from a recognized university/Institute and Two years' experience in R&D in industrial and academic institutions or S&T organizations and scientific activities and services  
OR

Doctoral Degree (obtained/ thesis submitted) in Mechanical Engineering/Production Engineering/Metallurgy and Materials Engineering/Biomedical Engineering or equivalent from a recognized University/Institute.

**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:** ₹ 57,000/ - per month + HRA (@30%)

**Age Limit:** Maximum 50 years.


**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 (PI), (E-mail: [bidyutpal@mech.iiests.ac.in](mailto:bidyutpal@mech.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.



Dean (R & C)

Dean Research and Consultancy  
Indian Institute of Engineering Science and Technology  
Shibpur, Howrah-711 103, West Bengal, India

(W. Code DRC-020/25-26)