

ADVERTISEMENT FOR THE POST OF JRF IN CENTER OF EXCELLENCE IN EMERGING MATERIALS, THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PATIALA IN COLLABORATION WITH VIRGINIA TECH, USA.

Applications are invited from highly motivated and eligible Indian citizens for a Junior Research Fellow (JRF) position in CEEMS, Thapar Institute of Engineering & Technology, Patiala.

Project Details:

Project title	An Immersive Digital Twin Surgical Rehearsal Framework for Craniotomy
Sponsored Agency	Center of Excellence in Emerging Materials, TIET
Name of the Post	Junior Research Fellowship
Vacancy	01 Post
Duration	02 Years
Principal Investigator	Dr. Vivek Jain , Professor, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India.
Co-PI's	Dr. Tarunpreet Bhatia , Associate Professor, Department of Computer Science & Engineering, TIET, Patiala. Dr. Vishal Gupta , Associate Professor, Department of Mechanical Engineering, TIET, Patiala.
Opportunity	The selected candidate can register for full-time Ph.D. program at TIET (upon fulfilling admission norms)

Other Details:

1.	Essential Qualification	M.E./M.Tech/B.E./B. Tech Degrees with at least 60% marks (or a CGPA of 6.0 on 10 point scale) in Computer Science/Mechanical/Electronics/Biomedical Engineering or related disciplines. Applicants having a valid GATE/NET score will be preferred .
2.	Desirable Skills	Candidate with strong interest and having pre-experience in Python, AI/ML, medical image processing, 3D Slicer, Blender/3D modelling, Unity/Unreal Engine, VR/AR, OpenXR, and biomechanical simulation/FEM .
3.	Fellowship	Rs. 30,000/- per month as per norms for Non-GATE/NET candidates Rs. 45,000/- per month as per norms for GATE/NET candidates
4.	Important	- The assignment is purely temporary in nature, and it is co-terminus with the project. - No TA/DA will be paid for appearing in the interview and/or joining the position. - All terms & conditions for this recruitment will be as per the guidelines of CEEMS
5.	Job description	The selected JRF will work on the development of an immersive, patient-specific digital twin framework for surgical rehearsal and planning of craniotomy procedures using MRI/CT data.
6.	How to Apply	Interested candidates should fill the google form (http://tiny.cc/jrf-ceems) and submit your curriculum vitae with self-attested photocopies of all mark sheets, certificates, GATE/NET score card, and other testimonials as a single pdf. <i>The last date to receive the applications is 30th Sept., 2026. The shortlisted candidates will be intimated about the interview date by e-mail.</i>

Dr. Vivek Jain
Professor, DME, TIET, Patiala
Profile link: <https://med.thapar.edu/facultydetails/MTE2MQ==>