INVITING APPLICATIONS FOR JRF POSITION

Embrace Excellence

Join world-class research groups at CEEMS (Center of Excellence in Emerging Materials), TIET

THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY (Deemed to be University)

CEEMS — A platform for the new materials age

About Thapar Institute of Engineering and Technology

Thapar Institute of Engineering and Technology (**TIET**), one of India's premier Institutions for higher education, provides world-class education and cutting-edge research in Engineering and Sciences. It is ranked 20th, 22nd, and 34th in the Engineering, University, and Research categories respectively by NIRF in 2023. NAAC ranking is A+

What CEEMS offers you?

CEEMS provides a platform for postgraduate students (M.Sc., MTech, Ph.D.), and post-doctoral candidates to have opportunities to conduct research under the supervision of leading publish their research in peer-reviewed journals and networking opportunities with other students, faculty, and industry professionals

Emoluments and Tenure

Rs. 35,000 pm with NET/GATE/Equivalent + Contingency*#
Rs. **25,000** pm without NET/GATE/ Equivalent + Contingency*#
Tenure: 3 years (subject to annual performance review)*

***** as per CEEMS-TIET norms
# The candidate is expected to work with his/her supervising faculty on the project and is also required to register and **pursue a Ph.D. in the related department**.

About Center of Excellence in Emerging Materials

CEEMS is an interdisciplinary center that was established in 2019 under a collaborative venture between TIET, India, and Virginia Tech, USA. This center has been designed to bring together research groups from different disciplines to conduct advanced scientific and engineering research in a new generation of materials, with an emphasis on solving significant problems facing humanity. Current areas of research include **Coal-derived Graphene-x (CGX)**, **Sustainable Construction (SC)**, **Cancer Detection and Treatment (CDT),** and **Smart Sustainable Sensors** (**S3**).

For more information please visit **https://ceems.thapar.edu/**

Qualification

1. First class in **M.Sc./ M. Tech.** in the relevant field. **(Essential)**
   or **B. Tech.** with an **8 CGPA** in the relevant field with a valid **GATE** score.
2. Candidate with valid **NET/ GATE**/ Equivalent will get preference
3. Proven **research experience** in the relevant field will be preferred.

Application procedure and deadline

Only **online applications (to the respective email)** will be accepted.
The last date for submitting a complete application is **02/10/2023**
A separate application is needed to apply in multiple projects.
Link for the Application: Click here

Applications are invited for the following project titled:

S.No.	Area	Title of the project	Essential Qualification	Contact Email
1	CGX	Performance Evaluation of CNF and Graphene Reinforced Hybrid Glass/Carbon Fiber Epoxy Nano-Composite for Improved Ballistic Resistance.	M.E. / M. Tech. in Civil/ Mechanical/ Chemical/ Relevant	shrutisharma.ced@thapar.edu
2	SC	Development of Sustainable Pavement Preservation Materials with Carbonaceous Chars as Alternative Fillers.	M.E./ M. Tech. in Civil/ Mechanical/ Chemical/ Relevant	abhinay.kumar@thapar.edu
3	CDT	Automated CAD System Utilizing Deep Learning Models for Identifying Multiple Sclerosis Brain Lesions.	M.E./ M. Tech. in Electrical/ Chemical/ Computer/ Relevant	ashima@thapar.edu
4	CDT	NFC-RFID sensor based smart bandage for real-time monitoring of wound health.	M.E./ M. Tech. in Electrical/ Chemical/ Computer/ Electronics & communication Relevant	jaswinder.kaur@thapar.edu
5	CDT	Development of a wearable, noninvasive, personalized home detection kit for early detection of breast cancer.	M.Sc. or M. Tech. Biotechnology/ Life Sciences / Zoology/ Biochemistry/ Chemistry	diptiman@thapar.edu
6	CDT	Experimental and computational investigation towards the synthesis of novel indole-based scaffolds and their biological evaluation	M.Sc. in Chemistry	vikas.tyagi@thapar.edu
7	S3	Synthesis of Novel Mechano-fluorophores for pressure-sensing and their potential applications in concrete structures.	M.Sc. in Chemistry	vluxami@thapar.edu

For any query, contact Coordinator CEEMS, Prof. Rajeev Mehta, TIET (Email: coordinator.ceems@thapar.edu) or CEEMS Chair Professor, Dr. Roop L. Mahajan, Lewis A. Hester Chair Professor, Virginia Tech., USA (Email: mahajanr@vt.edu).