Thapar Institute of Engineering and Technology, Patiala (Deemed-to-be-University u/s 3 of the UGC Act, 1956)

MECHANICAL ENGINEERING DEPARTMENT

January 15, 2024

Applications are invited for the position of Junior Research Fellow in DST–AMT sponsored project (Sanctioned File No: DST/TDT/AM/2022/365)

Project Title: Development of electroactive polymer nanocomposite based thin-film flexible sensors using Direct Ink Writing (DIW) 3D printing process.

Position: Junior Research Fellow (JRF)

Duration: Two Years

Stipend: Consolidated monthly stipend of Rs 33790/-, plus HRA as per the funding agency norms.

About the project: The project aims to fabricate, Synthesis and characterization of self-healing electroactive polymer composite using Direct Ink Writing (DIW) micro-3D-printing technology for fabrication of mesoporous thin-film wearable sensors. Another aim of the project is the optimization of DIW process and geometrical parameters to achieve desired mechanical and piezoelectric performance of mono/multi-layered 3D printed thin-film sensors.

Qualifications:

Essential: First class M.E./M. Tech. in Mechanical/Mechatronics/Manufacturing Engineering or relevant allied disciplines. Candidate must have qualified GATE in the relevant area.

Desirable: The candidate should possess a good knowledge of basic Electronics Engineering, Electrical Engineering, 3D printing, and precision fabrication and testing of thin film sensors. The candidates with good exposure to the advanced precision manufacturing of thin film sensors/molecular manufacturing will be preferred.

Last date of application: 19th January, 2024

How to Apply:

1. Interested candidates are requested to submit a detailed CV to through email with the subject line as "Application for the Position of Research Associate in DST-AMT Project" to Dr. Ravinder Kumar Duvedi at <u>rduvedi@thapar.edu</u> before **19th January 2024**.

2. The CV must include: academic history, GATE/ NET score, work experience, contact details, past experience and the list of relevant projects undertaken.

2. Shortlisted candidates will be informed for the online interview by email only by 21st January 2024.

3. The candidate selected for the above positions may also get enrolled for Ph.D. degree simultaneously as per the Institute norms.

4. The other norms such as age, stipend and essentials are available on DST portal.

5. In case of any query related to above project, kindly email at rduvedi@thapar.edu

Dr. Ajay Batish	Dr. Ravinder Kumar Duvedi	Dr. Sandeep Kumar Sharma
(PI)	(Co-PI)	(Co-PI)
Deputy Director-TIET	Associate Professor	Associate Professor
Professor- Mechanical	Mechanical Engineering	Mechanical Engineering
Engineering Department	Department	Department
Thapar Institute of Engineering	Thapar Institute of Engineering	Thapar Institute of Engineering
and Technology, Patiala	and Technology, Patiala	and Technology, Patiala
Email: abatish@thapar.edu	Email: rduvedi@thapar.edu	Email: sksharma@thapar.edu