

# THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATIALA

## Advertisement for Project Associate – I & Project Associate - II (DST PURSE project)

Applications are invited from eligible candidates for the position of “Project Associate – I” in the research project titled “Development of technologies for converting waste to wealth” funded by the Department of Science and Technology, Government of India, New Delhi (PURSE Scheme).

Name of position	“Project Associate – I” and “Project Associate – II”
Number of positions	Project Associate – I : Seven (07); Project Associate – II: Five (05)
Qualification	<p><b>Project Associate – I</b> Master’s degree in Natural Sciences OR Bachelor’s degree in Engineering/Technology from a recognised University or Equivalent (Candidates qualified in GATE /CSIR-NET or equivalent examinations will be preferred)</p> <p><b>Project Associate – II</b></p> <p>(i) Master’s degree in Natural Sciences OR Bachelor’s degree in Engineering/Technology from a recognised University or Equivalent</p> <p>(ii) 2 year’s experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific activities and services (Candidates qualified in GATE/GPAT/CSIR-NET or equivalent examinations will be preferred)</p>
Duration of the Position	Four years or up to the termination of project, subject to annual performance review
Emoluments (per month)	<p><b>Project Associate – I</b></p> <ul style="list-style-type: none"> <li>• Rs. 31,000/- + HRA (for candidates qualified in GATE/ CSIR-NET or equivalent examinations)</li> <li>• Rs. 25,000/- + HRA (for candidates <b>NOT</b> qualified in GATE/ CSIR-NET or equivalent examinations)</li> </ul> <p><b>Project Associate – II</b></p> <ul style="list-style-type: none"> <li>• Rs. 35,000/- + HRA (for candidates qualified in GATE/ CSIR-NET or equivalent examinations)</li> <li>• Rs. 28,000/- + HRA (for candidates <b>NOT</b> qualified in GATE/ CSIR-NET or equivalent examinations)</li> </ul>
Upper Age limit (years)	35
How to apply	Applicants can send a single PDF file (CV, Proof of qualification and experience, and any other relevant documents) by email to <a href="mailto:bhaskar@thapar.edu">bhaskar@thapar.edu</a> by <b>16<sup>th</sup> February 2024</b> . Only shortlisted candidates will be called for a personal interview. Hence, please provide your active email address and mobile phone number.
General Terms and Conditions	<ul style="list-style-type: none"> <li>• Interview will be conducted ONLINE (link will be shared to short-listed candidates)</li> <li>• Selected candidates are expected to join immediately (within two weeks)</li> <li>• Selected candidates are strongly encouraged to join the PhD programme at Thapar Institute of Engineering and Technology.</li> </ul>

Research topics	Department	PI
1. Production of biocompatible silica nanoparticles from spent rice husk and rice straw using a green approach	Biotechnology	Prof. M.S. Reddy
2. Development of biochar and bio-fuels from agricultural wastes/residues for CO <sub>2</sub> capture and utilization (CCU)	Chemical Engineering	Prof. H. Bhunia
3. Waste cooking oil transformation into biodiesel employing heterogeneous catalysts	Chemistry and Biochemistry	Prof. Amjad Ali
4. Photocatalytic H <sub>2</sub> production from industrial waste solvents and H <sub>2</sub> O splitting by graphene oxide coated metal-TiO <sub>2</sub> nanocatalysts under solar radiation		Prof. Bonamali Pal
5. Development of Green Process for The Production of Hydrogen from Micro Plastics		Prof. Soumen Basu
6. Investigations on Rutting and Fatigue Performance Properties of Bitumen & Bituminous mixes with Burnt Coconut Shell Charcoal as Additive	Civil Engineering	Prof. N. Kwatra
7. Studies on the hydrogen enrichment of biogas via dry reforming route and its applications for energy production	Energy and Environment	Prof. Amit Dhir
8. Microbial Intervention for bioconversion of community food-waste for production of Industrial Ethanol and Lactic acid		Prof. Anoop Verma
9. Utilizing waste plastic to prepare graphene/graphene oxide for energy conversion applications and Plastic waste derived 2D MXene for environmental remediation	Physics and Material Science	Prof. O.P. Pandey
10. Converting Agro-food waste to glass/glass ceramics for biomedical applications		Prof. Kulvir Singh
11. Agro and food waste-derived cellulose nanofibers for Triboelectric nanogenerator		Dr. Jayant Kolte
12. Conversion of chicken feather waste into electrodes for super-capacitor and ORR		Dr. Loveleen Kaur Brar