



Advertisement for a JRF position

Indian Institute of Technology, Ropar (IIT Ropar)
Department of Chemical Engineering, Rupnagar, Punjab
140001

Applications are invited for a junior research fellow (JRF) position in the Department of Chemical Engineering, IIT Ropar under the Anusandhan National Research Foundation (ANRF) sponsored project titled “**Memory formation and self-organization in cyclically driven granular media**”. The overall objective of the project is to understand the physics behind memory formation and random organization in cyclically trained non-equilibrium systems such as granular materials and find efficient ways to train a disordered system to produce a specific mechanical response. The project will involve both numerical simulations and experiments.

Essential qualifications: Master's degree in Chemical/ Mechanical/ Civil/ Aerospace/relevant Engineering area or M.Sc. in Physics/Mathematics with a GATE or CSIR UGC NET qualified score. Candidates must have obtained at least 60% marks (or 6.5 CGPA) (55% marks or 6.0 CGPA for SC/ST) in their Master's. Deserving candidates will be considered for PhD admissions at a later stage if they meet all the institute requirements.

Desired qualifications: Experience in molecular dynamics simulation/ continuum mechanics/ photoelasticity / rheology/ soft matter will be an added advantage.

Duration: The position is for three years in total. However, it will be given initially for one year which can be extended further based on the evaluation of the performance by the principal investigator.

Salary: Rs 37,000 + HRA per month. Suitable accommodation on the campus may be provided based on availability.

The applicant must send the following documents in a single PDF file to saikat.roy@iitrpr.ac.in (Dr. Saikat Roy) on/before **25th July, 2024**.

1. A one-page cover letter describing the background and how it will help to pursue this project.
2. Resume with complete qualification and experience details.
3. Soft copy of all degree certificates.
4. Proof of GATE/NET qualification.

The selected candidates will be called for an online interview. Please note that no TA/DA will be provided.

For any further information, please contact the principal investigator:

Dr. Saikat Roy, Assistant Professor
Department of Chemical Engineering, IIT Ropar
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