

Advertisement for the Research Associate (RA)

Applications are invited for a Research Associate (RA) position in the Department of Physics, IIT Ropar to work on an advanced interdisciplinary research project funded under the **ANRF PAIR DEARMS** initiative. The project will be carried out under the direct guidance of **Prof. Rajeev Ahuja**.

Job description: Research Associate (RA)

Location: IIT Ropar, Rupnagar, Punjab

Number of positions: 1 (one)

Type of job: Full time (on contract)

Duration: The position is initially for one year. Extendable up to 2 years based on satisfactory performance.

Project Focus Areas: Computational Materials Science, Energy Materials (Batteries, Hydrogen Storage & Production, Sensors), and High-Pressure Physics.

Key Responsibilities

- ☐ Perform high-level computational modeling and simulation of advanced materials for energy applications.
- ☐ Collaborate closely with multidisciplinary teams under the ANRF PAIR initiative.
- ☐ Prepare research reports, present findings at international forums, and manuscript drafting for top-tier peer-reviewed journals.

Essential qualifications: Ph.D. in Physics, Materials Science, Chemistry, Computational Materials Science, Nanoscience, or related engineering disciplines from a recognized University/Institute.

Desirable Experience:

- ☐ Strong background in density functional theory (DFT), molecular dynamics simulations, or machine learning for materials discovery.
- ☐ Proven track record in energy storage/conversion materials (batteries, hydrogen storage, electrocatalysis) or high-pressure materials physics.
- ☐ Prior publication record in high-impact peer-reviewed scientific journals.

Age limit: 35 years

Remuneration: A salary of Rs 58,000/month will be provided (+HRA if applicable)

The applicant must email the following documents in a single PDF file named as RA_ANRF Project_Your name to staff.saleeta.rani@iitrpr.ac.in and cc'ed to vivekanand.shukla@iitrpr.ac.in (Dr. Vivekanand Shukla) on/before 28/10/2026.

A one-page cover letter describing the background and prior research knowledge.

1. Resume with complete qualification and experience
2. Soft copy of all degree/marksheet certificates.
3. Certificate of PhD degree and GATE/NET qualification.
4. Recommendation letters from two referees
5. List of Publications

Note: Only shortlisted candidates will be called for online interview through email.