

22 April 2026

Notification for Recruitment of Junior Research Fellow, Mechanical Engineering
Project funded by the ANRF CRG
Ref: IITPKD/2026/014/ME/SAC

● **Project Areas:**

- Condition monitoring of EV battery packs for Indian climatic conditions.
- Battery Thermal Management and Health Monitoring.
- Developing models and strategies for Predictive Maintenance and Real-Time Condition Monitoring.

● **Required Skills:**

- **Basic Skills:** Basic knowledge in Battery Chemistry/Thermal management and control systems for battery/Battery Management Systems (BMS)/Battery Degradation Mechanisms.
- Embedded systems programming.
- Experimental design and Data acquisition.
- Problem-solving and critical thinking.
- Technical writing (LaTex).
- Data analytics.
- Understand various standards and regulations to ensure safety, performance, and environmental compliance.
- **Software skills:** Simulation: COMSOL Multiphysics, ANSYS Fluent for simulating battery behavior under different thermal and operational conditions.
- Python, MATLAB, or C/C++ to develop and customize monitoring tools and algorithms for analyzing battery data.

● **Eligibility:**

- Master's Degree, M.Tech/ M.E in Mechanical Engineering (Thermo-fluids), Energy Engineering/ Renewable Energy/ Thermal Engineering with GATE qualification. Experience (Preferred) in Battery Management System (BMS) design and applications/ Thermal management/ Real-time condition monitoring systems, etc.

- **Age:** Candidates who are not exceeding 31 years of age, as on the closing date of application, with relaxation to candidates belonging to OBC/ SC/ ST/ PWD categories and women applicants as per Government of India norms.

- **Appointment Duration:** 1 year.

- **No. of Positions:** One

- **Salary Particulars:** The monthly remuneration for this position will be Rs. 37,000/- (Thirty-Seven Thousand Rupees Only). Hostel accommodation may be provided at the institute based on availability on a chargeable basis. In case of non-availability of institute hostel, admissible HRA will be provided as per the Government of India rules.
- **Deadline for application:** 08 May 2026 (Friday)

Candidates satisfying the required skills may send their resumes and certificates pertaining to educational qualifications starting from class X (in a single PDF) to “samarjeet@iitpkd.ac.in”. The subject of the application e-mail should be “Application for Junior Research Fellow - **IITPKD/2026/014/ME/SAC**”. The candidate is expected to join immediately after receiving the offer letter.
