INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: R&D/1533/CDA/635 **DATED: 05.11.2026**

Project No: R&D/SP/MME/CDA/2026-27/1533

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. (a) Name of the temporary assignment :Junior Research Fellow (JRF) - (Vacancy: 01 post)

   (b) Number of Post : JRF-01 (one)

   (c) Duration of the Post : Initially 01 year and can be extendedsubjected to satisfactoryperformance.

   (Note: JRF may apply in PhD programme of MME Dept. of IIT Patna)

2. Name of the temporary research project :**Cryogenic Deformation of Alloy 718Plus®: Enhancing Cryogenic Tribology for Aircraft Engines**

3. Name of the sponsoring Agency:**ANRF, India, Government of India**

4. Consolidated Fellowship/Salary:Rs. 37,000/- + HRA per month

5.Qualifications & Experience:B.E./B.Tech. with GATE score or
M.E./M.Tech./M.S/M.Sc.

Bachelor's/Master's degree level in the following disciplines:
Metallurgical and Material Engineering, Materials Science/ Engineering, Mechanical Engineering, Production Engineering, Industrial Engineering, Aerospace Engineering, Ceramic Engineering,Energy Science and Engineering,Physics, Chemistry and allied engineering/Science disciplines. **A valid GATE score isdesirable.**

Age limit: The upper age limit for JRF shall be 28 years for B. Tech./B.E. and 32 years for M.Tech./M.E. degree. Relaxations for SC/ST/OBC/Women/PD will be given as per the GoI rules.

Research experience in the field of materials processing, microstructural characterization, Mechanical properties evaluation, CAD/ CAM Modelling, and Tribology of materials will be given preference. Familiarity with Space-grade/Nuclear-garde material requirements and tribological performance in aerospace environments is essential.

Key responsibilities of a JRF include:
Research Work: Conduct literature reviews, experimental work, data collection, and data analysisas part of the research project.
Project Assistance: Assist the PI in project planning, design, and execution.
Data Interpretation: Analyze research data and interpret the results to draw meaningful conclusions.
Report Writing: Prepare research reports, papers, and presentations to communicate findings and progress to the research team and stakeholders.

INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

Continuous Learning: Keep abreast of the latest developments and advancements in the field of research.
Collaboration: Collaborate with other researchers and team members to share knowledge and insights.
Compliance: Ensure that research work is conducted in adherence to ethical guidelines and research protocols.
Professional Development: Attend seminars, conferences, and workshops to enhance knowledge and research skills.

1. Candidates interested in this position and satisfying the qualification criteria should write an email to the **Project Investigator: Dr. Sandan Kumar Sharma and Dr. Nitish Raja (Email id:sandansharma07@iitp.ac.in; nraja@iitp.ac.in)**
2. **The subject of the email should read as "JRF Position". The last date for receiving thisemail is 30thNovember 2026**.
3. The email MUST include the scanned/pdf copy of the duly filled application form (seebelow) with applicant's signature.
4. The email MUST include self-attested scanned pdf copy of all supporting documents(degree certificates, mark-sheets, GATE/NET scorecard (if qualified), and categorycertificate, if applicable).
5. The application should also include a brief academic CV not exceeding two pages.

IIT Patna reserves the right to not shortlist any candidate in case the application email does notcontain complete information backed up by the supporting documents as listed above.

All candidates who apply via email by **30thNovember 2026 (deadline)** and are shortlisted willbe informed regarding the further details by **6th December, 2026**.

The shortlisted candidates would be asked to choose between offline walk-in (no travelallowances (TA) would be provided) and online interview mode. For any query, contactinvestigator: **Dr. Sandan Kumar Sharma, Department of Metallurgical and MaterialsEngineering,IIT Patna, Email: sandansharma07@iitp.ac.in; nraja@iitp.ac.in (Tel.: +91-6115-233998)**.

Important Dates:

1. Last date for receiving Applications by Email: **30thNovember 2026**
2. Shortlisted candidates will be informed by Email: **6th December, 2026**
3. Date of Interview: To be announced.

Deputy Registrar/ Registrar

Copy to:

1. Associate Dean, R&D, IIT Patna
2. All other IITs/IITBHU/Universities
3. Advertisement file
4. Project file

INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

PROJECT CODE: R&D/SP/MME/DDH/2024-25/1150

ADVT NO:DATED:

FORMAT OF APPLICATION FOR ……

Name & Address **Including email id and Phone no. (for Correspondence)**	**Category** (GEN/OBC/SC/ST/PD)	**DOB** dd/ mm/yy	**Professional Exam. (GATE/CSIR-NET, etc) & Validity**
NAME IN CAPITAL Address: Phone: Email:			

Educational Qualification

Institute/ Board	**Exam Passed**	**Year of Passing**	**% of Marks/CPI**
	10th Class		
	12th Class		
	Bachelors (B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters (M.Sc/M.Tech/M.E/MCA/ MA) or equivalent		

Qualifying degree	**Degree/ major/Specialization**
(B.Sc/B.Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
Others	

Signature of applicant

Date:
Place: