



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

ADVERTISEMENT NO:R&D/1231/SCM/515

DATED: 09.10.2025

Project No: R&D/SP/MME/SCM/2024-25/1231

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 extended up to Maximum of 01 year subject to satisfactory performance.
(Note: JRF may apply in PhD programme of MME Dept. of IIT Patna)
2. Name of the temporary research project : **Self-lubricating ceramic materials for Spacecraft application**
3. Name of the sponsoring Agency : Indian Space Research Organisation Department of Space, 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.

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, and allied engineering disciplines. **A valid GATE score is desirable.**

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 in ceramic materials processing (e.g., SPS, hot pressing), Microstructural characterization, Sintering, Mechanical property evaluation, CAD/ CAM Modeling, and Tribology of materials will be given preference. Familiarity with space-grade 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 analysis as 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 (Email id: sandansharma07@iitp.ac.in)**
2. **The subject of the email should read as “JRF Position”. The last date for receiving this email is 27th October 2025.**
3. The email MUST include the scanned/pdf copy of the duly filled application form (see below) 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 category certificate, 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 not contain complete information backed up by the supporting documents as listed above.

All candidates who apply via email by **27th October 2025 (deadline)** and are shortlisted will be informed regarding the further details by **3rd November, 2025**.

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

Important Dates:

1. Last date of receiving Applications by Email: **27th October 2025**
2. Shortlisted candidates will be informed by Email: **3rd November, 2025**
3. Date of Interview: To be announced.

Assistant Registrar

Copy to:

1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file



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

PROJECT CODE: R&D/SP/MME/SCM/2024-25/1231

ADVERTISEMENT NO:R&D/1231/SCM/515

DATED: 09.10.2025

FORMAT OF APPLICATION FOR JRF

Name & Address		Category	DOB	Professional Exam.
Including email id and Phone no. (for Correspondence)		(GEN/OBC/SC/S T/PD)	dd/ mm/yy	(GATE/CSIR-NET, etc) & Validity
NAME IN CAPITAL Address: Phone: Email:				
Educational Qualification				
Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI	
	10 th Class			
	12 th 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	

#

Date:

Place:

Signature of applicant