



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

**ADVERTISEMENT NO: R&D/1150/DDH/422**

**DATED: 25.10.2024**

Project No.: R&D/SP/MME/DDH/2024-25/1150

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 02 years subject to satisfactory performance.  
*(Note: JRF may apply in PhD programme of MME Dept. of IIT Patna)*
2. Name of the temporary research project : **Design and Development of High- Strength Wear-Resistant Aluminium-Based Hybrid Composites for Airframe Wings**
3. Name of the sponsoring Agency : Anusandhan National Research Foundation (ANRF)
4. Consolidated Fellowship/Salary : **Rs. 37,000/- + HRA (at the rate of 8%) 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 Casting of Aluminium composites, Microstructural characterization, Sintering, Mechanical property evaluation, CAD/ CAM Modeling, and Tribology of materials will be given preference.*

**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.



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**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.

**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](mailto:sandansharma07@iitp.ac.in))
2. The subject of the email should read as “JRF Position”. **The last date for receiving this email is 15<sup>th</sup> November 2024.**
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 15<sup>th</sup> November, 2024 (deadline) and are shortlisted will be informed regarding the further details by 20<sup>th</sup> November, 2024.**

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](mailto:sandansharma07@iitp.ac.in) (Tel.: +91-6115-233998).

- Important Dates:**
1. Last date of receiving Applications by Email: **15<sup>th</sup> November, 2024**
  2. Shortlisted candidates will be informed by Email: **25<sup>th</sup> November, 2024**
  3. Date of Interview: To be announced.

**Deputy Registrar**

Copy to:

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



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**FORMAT OF APPLICATION FOR JRF**

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

**Educational Qualification**

Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI
	10 <sup>th</sup> Class		
	12 <sup>th</sup> 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: