



ॐ नमो भगवते वासुदेवाय ॐ नमो भगवते वासुदेवाय ॐ नमो भगवते वासुदेवाय

Office: +91 731 2438 733

ॐ नमो भगवते वासुदेवाय, ॐ नमो भगवते वासुदेवाय 453 552  
2438 721

Fax : +91 731

IIT Indore

Dated: 19.08.2026

### **Advertisement for Junior Research Fellow (JRF)**

Applications are invited from motivated and eligible candidates for junior research fellow (JRF) position in the research project (*Project No: ARDB/MM/4095/2145*) supported by AR&DB, Defence Research and Development Organization - DRDO, Ministry of Defense, Government of India. The details of the project are given below:

| Position                | Junior Research Fellow (JRF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Position (s)  | 1 (One)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Title of The Project    | Development of single-phase BCC refractory high entropy alloys for high temperature applications using machine learning (ML) and experimental approaches                                                                                                                                                                                                                                                                                                                                                     |
| Principal Investigator  | Dr. Sumanta Samal<br>Associate Professor<br>Department of Metallurgical Engineering and Materials Science (MEMS), IIT Indore                                                                                                                                                                                                                                                                                                                                                                                 |
| Tenure of Project       | Maximum 12 months or till end of the project, whichever is earlier                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Job Description         | Single-phase BCC refractory high entropy alloys (RHEAs) will be developed. The phase evolution, mechanical properties at high temperature, corrosion and oxidation behaviour of BCC RHEAs at different processing conditions will be studied. The detailed characterization will be carried out using OM, SEM, EPMA, TEM, TG-DTA and APT etc. and processing-structure-property correlation chart of BCC RHEAs will be developed.                                                                            |
| Essential Qualification | M. Tech. / ME in Metallurgical and Materials Engineering/ Mechanical Engineering/ Materials Engineering/ Nanoscience and Engineering/ Nanotechnology/ Production Engineering/ Manufacturing Engineering/ or equivalent (with first division as defined by the awarding Institute / University);<br><b>or</b> Master degree in Physics/Chemistry/Materials Science (with first division as defined by the awarding Institute /University).<br>Candidate who has qualified NET/ GATE will be given preference. |
| Desirable Qualification | Knowledge and experience in Physical Metallurgy, Mechanical Metallurgy, Materials Characterization, Solid state physics and Basic Electrochemistry.                                                                                                                                                                                                                                                                                                                                                          |
| Age Limit               | Maximum 28 years (5 years relaxation for SC/ST candidates and 3 years relaxation for OBC candidates)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fellowship              | Rs. 37,000 per month + HRA as per institute rules                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Last Date & Time        | Interested candidates are requested to send detailed Bio-data, statement of purpose (SOP) and copies of educational qualifications, and other relevant documents to the Principal Investigator by Email ( <a href="mailto:sumanta@iiti.ac.in">sumanta@iiti.ac.in</a> ) on or before <b>September 06, 2026, 5:00 PM.</b>                                                                                                                                                                                      |

Only shortlisted candidates will be informed about the date of the interview by email. The appointment is purely temporary and co-terminus with the project. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirement of the project. Google meet link will be shared only with the shortlisted candidates before the date of the interview.