

भारतीय प्रौद्योगिकी संस्थान इंदौर

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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	1 (One)
Position (s)	
Title of The	Development of single-phase BCC refractory high entropy alloys for high temperature applications
Project	using machine learning (ML) and experimental approaches
Principal	Dr. Sumanta Samal
Investigator	Associate Professor
	Department of Metallurgical Engineering and Materials Science (MEMS), IIT Indore
Tenure of Project	Maximum 27 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 a 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 char 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); or Post Graduate degree in Physics/Chemistry/Materials Science with first division as defined by the
	awarding Institute /University and Valid NET/ GATE certificate. Knowledge and experience in Physical Metallurgy, Mechanical Metallurgy, Material
Desirable	Characterization Solid state physics and Basic Electrochemistry.
Qualification 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 (for first two years) + HRA as per institute rules
Admission to PhD Program	Candidates may also be considered for admission to the Ph.D. program under FA category depending upon the aligibility criteria given by the Department of MEMS, IIT Indore.
Last Date & Time	Interested candidates are requested to send detailed Bio-data, statement of purpose (SOP) and copied of educational qualifications, and other relevant documents to the Principal Investigator by Ema
Only shortlist temporary and	(sumanta@iiti.ac.in) on or before July 11, 2025, 5:00 PM. ed candidates will be informed about the date of the interview by email. The appointment is purel co-terminus with the project. Mere possession of minimum qualification does not guarantee an invitation of the project. Google and the interview by email of the project. Google content of the project of the project.

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.

S. Samul