



भारतीय प्रौद्योगिकी संस्थान इंदौर

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Indian Institute of Technology Indore

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IIT Indore

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Advertisement for Junior Research Fellow (JRF)

Applications are invited from motivated and eligible candidates for a junior research fellow (JRF) position in the research project supported by the Indian Space Research Organization (ISRO) under the RESPOND program (*Project No: ISRO/RES/3/909/21-22*). The details of the project are given below:

Position	Junior Research Fellow (JRF)
Number of Position (s)	One
Title of The Project	Development of Microstructure-Property-Processing Correlations for nickel based superalloys
Principal Investigator	Dr. Sumanta Samal
Tenure of Project	Maximum 4 months
Job Description (in maximum of 100 words)	The tensile properties of Ni-based superalloys at different processing conditions will be evaluated. The processing map and forming limit diagram (FLD) will be generated at different processing conditions. The detailed characterization will be carried out using XRD, SEM, EPMA, TEM, APT etc. and precipitation kinetics study will lead to the establishment of TTT diagram.
Essential Qualification	M.Tech./ME in Metallurgical and Materials Engineering/Mechanical Engineering/ Materials Science or equivalent selected through a process described through any one of the following: (a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) or GATE (b) The selection process through National level examinations conducted by Central Government Departments and their Agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.
Desirable Qualification	Knowledge and experience in Mechanical Metallurgy, Solidification processing and material characterization
Fellowship	Rs. 31,000 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 (sumanta@iiti.ac.in) on or before July 26, 2024, 5:00 PM .

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 short listed 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.