

भारतीय प्रौद्योगिकी संस्थान इंदौर

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Indian Institute of Technology Indore

Khandwa Road, Simrol

Dated: 29.03.2022

## 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 (s)   Development of Microstructure-Property-Processing Correlations for nickel based superalloys     Project   Dr. Sumanta Samal     Investigator   Dr. Sumanta Samal     Investigator   Maximum 2 years or till end of the project, whichever is earlier     Project   Dob     Job   The material in the fabrication condition will be subjected to various thermal or thermomechanical cycles. The integrated computational material engineering (ICME), along with a physical simulation of the manufacturing process, can accelerate the optimum processing condition. In this study, the simulation tools will be used to screen out the experimental trials and simulation guided experiments will be conducted. The processing maps and forming limit diagram will be generated at different processing conditions. The detailed characterization can be carried out using XRD, SEM, EPMA, TEM, APT and precipitation kinetics study will lead to the establishment of TTT diagram.     Essential   Qualification     Qualification   M.Tech./ME in Metallurgical and Materials Engineering/Mechanical Engineering/ Materials Engineering or equivalent selected through a process described 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. The candidate should have defended M.Tech./ME thesis dissertation or is going to defend M.Tech./ME thesis dissertation in AY 2021-22.     Desirable   Knowledge and experience in thermodynamic simulation, casting process and material (sumanta@iiti.ac.in) on refore April 20, 20	Position	Junior Research Fellow (JRF)
Title of The Project   Development of Microstructure-Property-Processing Correlations for nickel based superalloys     Principal Investigator   Dr. Sumanta Samal     Tenure of Project   Maximum 2 years or till end of the project, whichever is earlier     Project   The material in the fabrication condition will be subjected to various thermal or thermomechanical cycles. The integrated computational material engineering (ICME), along with a physical simulation of the manufacturing process, can accelerate the optimum processing condition. In this study, the simulation tools will be used to screen out the experimental trials and simulation guided experiments will be conducted. The processing maps and forming limit diagram will be generated at different processing conditions. The detailed characterization can be carried out using XRD, SEM, EPMA, TEM, APT 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 Engineering 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. The candidate should have defended M.Tech./ME thesis dissertation or is going to defend M.Tech./ME thesis dissertation in AY 2021-22.     Last Date & Time   Rs. <b>31,000 per month + HRA (as per institute rules)</b> Interested candidates are requested	Number of	One
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meet link will be shared only with the shortlisted candidates before the date of the interview.		