



भारतीय प्रौद्योगिकी संस्थान इन्दौर
सिमरोल, खण्डवा रोड, इन्दौर, भारत, पिन - 453 552
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IIT Indore

July 04, 2024

**Advertisement for Junior Research Fellow in Project funded by IIT Guwahati Technology
Innovation and Development Foundation (IITG TI&DF)**

Applications are invited from high caliber, enthusiastic and research-oriented candidates for the position of **Junior Research Fellow (JRF)** in a research project entitled “**Electromagnetic Compaction Assisted Underwater Induction Heating of Aluminum Scarp Material: A Green Manufacturing Process**” sponsored by the IIT Guwahati Technology Innovation and Development Foundation (IITG TI&DF) which has been setup at IIT Guwahati as a part of the National Mission on Interdisciplinary Cyber-Physical Systems.

About the project: The project aims is to Use a high strain rate electromagnetic compaction technology and assist it with an underwater induction heating system for efficiently and effectively recycling aluminum scrap material.

Essential Qualification: First Class B.E./B.Tech./M.E./M.Tech in Mechanical Engineering/Mechanical and automation/Mechatronics/Production/Industrial Engineering/Electronics and/or Instrumentation/Data science. Candidate must have qualified GATE in a Relevant area.

Desirables: The candidate should know about manufacturing, materials science, welding, high-speed processes, and data acquisition. Additionally, candidates with numerical simulation in metal forming/welding are encouraged to apply.

Monthly Stipend: Rs. 31,000 per month + HRA as per the funding agency norms.

Duration: Initial appointment is for eleven months, which is extendable further based on performance up to the project duration. **Selected candidates may be considered for admission to the Ph.D. program as regular full-time scholars at IIT Indore per Institute norms.**

How to Apply:

1. Interested candidates are requested to submit **two pages write-up and a detailed CV** to Dr. Ashish Rajak (a.rajak@iiti.ac.in), via email only with the subject line as “**Application for JRF position in Project funded by IIT Guwahati Technology Innovation and Development Foundation (IITG TI&DF)**”. The last date for submission of applications is **August 04, 2024**. Only shortlisted candidates will be intimated by email for the online interview.
2. In two pages write-up, the candidate may write about his/her past research work, any relevant research project done by the candidate, his/her idea for future research or views on the above project based on the literature search etc.
3. CV should include complete information such as academic grades/percentage starting from Xth standard onwards with the details of year of passing, university or college, GATE score with year, discipline, marks, All India Rank, number of candidates appeared, contact details and a valid email id. **Kindly mention the work experience in detail of related field.** Incomplete applications will be rejected.
4. Only shortlisted candidates will be intimated by email for an online interview.
5. In case of any query related to above project, kindly email to Dr. Ashish Rajak.