



भारतीय प्रौद्योगिकी संस्थान इन्दौर
सिमरोल, खण्डवा रोड, इन्दौर, भारत, पिन - 453 552
Indian Institute of Technology Indore
Simrol, Khandwa Road, Indore, India PIN - 453 552

IIT Indore

April 28, 2025

Advertisement for Junior Research Fellow in AgriHub funded Project

Applications are invited from high caliber, enthusiastic and research-oriented candidates for the position of **Junior Research Fellow (JRF)** in a research project entitled “**Autonomous Precision Agriculture: Data-Driven Pest Detection, Disease Identification and Prediction, and Growth Analysis Using Computer Vision and Deep Learning**” sanctioned under AgriHub: Innovation Hub for Agriculture(AI/ML & Deep Learning Center of Excellence) scheme for the duration of 36 months.

About the project: This project innovates new techniques to enable sufficient on-robot and on-drone data analysis and planning for the acquisition and localization of samples. Also, a new novel method for data co-processing is proposed using both the on-board processor on the robot/drone and the processor on the data center for real time disease prediction and growth analysis of crops.

Essential Qualification:

Masters' degree (M.Tech./M.E. or M.S.) in CSE, IT, Electronics, and Electrical Engineering/ Technology (with first division in qualifying degree*) AND GATE qualification in Computer Science and Information Technology (CS) or Data Science and Artificial Intelligence (DA) OR UGC-NET-LS qualification

OR

M.Sc. degree in Mathematics (with first division as defined by the awarding Institute/ University) AND GATE qualification in Computer Science and Information Technology (CS) or Data Science and Artificial Intelligence (DA) OR UGC-NET-LS qualification

OR

Four-year Bachelor's degree (B.Tech. or B.S.) OR five-year integrated degree in CSE, IT, Electronics, and Electrical Engineering/ Technology (with first division in qualifying degree*) AND valid GATE qualification in Computer Science and Information Technology (CS) or Data Science and Artificial Intelligence (DA).

Desirables: The candidate should possess good knowledge of machine learning techniques, computer vision, image processing, etc. Additionally, candidate with good exposure to data analysis and signal processing are highly encouraged to apply.

Monthly Stipend: Consolidated Rs. 37,000 per month plus HRA as per rules (Rs. 42,000 per month plus HRA as per rules on conversion to SRF after getting 2 years of experience as JRF).

Duration: Initial appointment is for one year, which is extendable further based on performance up to the project duration. **Selected candidate may be considered for admission to Ph.D Programme as a regular full-time scholar at IIT Indore as per Institute norms.**

How to Apply:

1. Interested candidates are requested to submit **two pages write-up and a detailed CV** to **Prof. Aruna Tiwari** (artiwari@iiti.ac.in), via email only with the subject line as “**Application for JRF position in AgriHub Project**”. The last date for submission of applications is **May 10, 2025**. Only shortlisted candidates will be intimated by email for the online interview.



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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 the above project, kindly email to Prof. Aruna Tiwari.