



भारतीय सूचना प्रौद्योगिकी संस्थान धारवाड़

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DHARWAD

[Institute of National Importance by an Act of Parliament]

## Advertisement for the Recruitment of Multiple Research Positions

Applications are invited from Indian nationals for multiple positions which can be Junior Engineer/Junior Research Fellow (JRF) / Project Assistant / Research Intern / Student Intern in a project sponsored by ARTPARK-IISC. Details of the project and the recruitment are given below.

**Project Title:** “Smart Crop Management System Enabled by 5G Drone Surveillance and Digital Twin Technology for Enhanced Precision Agriculture”

**Duration of the Project:** Up to March 31, 2025 (likely to be extended)

**Project Team:**

Principal Investigator (PI): **Dr.Prakash Pawar**, Assistant Professor & HoD, Dept. of ECE, IIIT Dharwad

Co-PI-1: **Dr. Jagadeesha R Bhat**, Assistant Professor, Dept. of ECE, IIIT Dharwad

Co-PI-2: **Dr.Sibasankar Padhy**, Assistant Professor, Dept. of ECE, IIIT Dharwad

**Name of the Position:** Junior Research Fellow (JRF) / Project Assistant / Research Intern / Student Intern

**Number of Positions:** Multiple

**Qualification:** Please refer to the table below.

Application Link	<a href="https://forms.gle/xNcQ9y6PX92gJyK99">https://forms.gle/xNcQ9y6PX92gJyK99</a>
Application Start Date	05-08-2024
Application End Date	16-08-2024
Interview Dates & Results	Shortlisted candidates will be communicated over email/phone call.

**Details:**

S.no	Particulars	Details
1	Name of the Position	Junior Engineer/Junior Research Fellow (JRF)/ Project Assistant / Research Intern/ Student Intern
2	No.of Positions	Multiple Positions
3	Consolidated Emoluments	<b>Junior Engineer:</b> INR 40000 up to 70000/per month <b>JRF:</b> INR. 37000 +16% HRA. (Subject to availability of funds) <b>Project Assistant/Research Assistant:</b> INR 20000 up to 25000 based on performance and relevant experience.

		<p><b>Research Intern:</b> INR 10000 up to 15000 based on performance and relevant experience.</p> <p><b>Student Interns:</b> INR 5000 up to 10000 based on performance and relevant experience.</p>
4	Qualification	<p><b>Junior Engineer:</b> M.E / M.Tech / B.E / B.Tech with relevant experience in the domain.</p> <p><b>JRF:</b> M.E / M.Tech / B.E / B.Tech in ECE/CSE/IT/EE or any relevant branches. GATE/NET or any equivalent national level examination is desirable, however, not mandatory.</p> <p><b>Project Assistant/ Research Assistant:</b> B.E / B.Tech in ECE/CSE/IT/EE or any equivalent branches with relevant experience is desirable.</p> <p><b>Research Intern:</b> B.E / B.Tech in ECE/CSE/IT/EE or any equivalent branches.</p> <p><b>Student Intern:</b> Any undergraduate student currently in the 3rd or 4th year of their graduation in ECE/CSE/IT/EE or any equivalent branches. Students with exceptional performance can be considered for hybrid (In-Person/Online) mode of Internship based on the committee recommendation.</p> <p><i>*Note: Deserving candidates with M.E/M.Tech or B.E/B.Tech with relevant experience will be encouraged to register for Ph.D or M.Tech (Research) subject to qualifying the institute norms.</i></p>
5	Duration of the Project	Initially 9-months and extendable up to two or three-years based on review and satisfactory outcomes and funds availability.
6	Tenure of appointment	The appointment for the above contractual position will be initially for a period of 09 months, which may be extended or curtailed, based on the performance of the candidate, availability of funds in the project, and requirement in the project. The appointment will be co-terminus with the project.
7	Desirable Skills (but not essential)	Knowledge in IoT and Agricultural Applications, Programming skills, Machine Learning and Familiarity with Drone/UAV.
8	Job Description	<p><b>Survey and Mapping:</b> Conduct drone surveys using high-resolution sensors to gather data on crop vitality, soil quality, and pest outbreaks.</p> <p><b>Data Processing:</b> Use edge computing for real-time data processing to facilitate prompt decision-making.</p> <p><b>Digital Twin Development:</b> Create and maintain virtual replicas of fields for simulations and forecasts.</p> <p><b>AI/ML Integration:</b> Analyze data with AI/ML models to develop precise action plans for pesticide and fertilizer application.</p> <p><b>5G Technology Utilization:</b> Ensure efficient communication and data transmission using 5G technology.</p> <p><b>Resource Allocation:</b> Enhance crop production and resource efficiency through advanced technologies.</p> <p><i>* Based on the project needs and recommendation from the funding agency, the job description may differ.</i></p>

### **General Instructions to the Applicants:**

1. Selected candidates shall not have claim on any regular position and shall not be bestowed any of the privileges like housing, medical facility and other benefits available to regular employees of the Institute.
2. Applicants are advised to ensure, before appearing for the Selection Process, that they possess the minimum essential qualification and experience laid down for the post. Qualification obtained has to be from a recognized University/Institute. Eligibility in terms of age, qualification and experience of a candidate shall be considered as on the date of Selection Process.
3. The number of vacancies indicated in the notification is tentative. IIIT Dharwad reserves the right to increase or decrease the number of advertised posts at the time of selection. Further, IIIT Dharwad reserves the right to NOT fill any of the posts advertised.
4. No TA/DA will be paid for attending the Selection Process.
5. In case of any inadvertent mistake in the process of selection, which may be detected at any stage even after issue of the appointment letter, the Institute reserves the right to modify, withdraw or cancel any communication made to the Applicants.
6. After joining the service of the Institute, the person(s) will have to abide by the Rules, Regulations, Ordinances, Statutes and Act of the Institute applicable from time to time. He/She may be assigned any duty within or outside the Institute depending upon the exigency of the work.
7. The Institute shall verify the antecedents or documents submitted by a person at the time of appointment or during the tenure of the service. In case it is detected that the documents submitted by the candidates are fake, or the person has a clandestine antecedents or background and has suppressed the said information, then his/her services shall be terminated forthwith and legal action may be initiated against such candidates/employees.
8. No interim correspondence whatsoever will be entertained from the candidates.
9. Canvassing in any form or bringing in any influence political or otherwise will be a disqualification for the post.
10. In case of any dispute/ambiguity that may occur in the process of selection, the decision of the Institute shall be final.
11. For a query related to the selection process, applicants may send email to [prakashpawar@iiitdwd.ac.in](mailto:prakashpawar@iiitdwd.ac.in) However, enquiry/queries related to eligibility for the post/interpretation of rules will not be entertained.