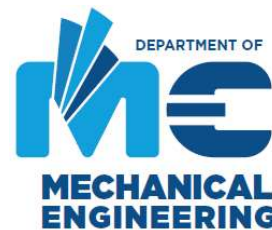




भारतीय प्रौद्योगिकी
संस्थान जम्मू
INDIAN INSTITUTE OF
TECHNOLOGY JAMMU



Advt. No.: IITJMU/R&C/RPOO122/A-22

Dated: 27/10/2022

Advertisement for the Position of JRF

Applications are invited from interested candidates for the post of **Junior Research Fellow (JRF)** to work on the project titled “**Development of a low-cost device for remote detection of water stress in crops**” sanctioned by the Science and Engineering Research Board (SERB), India.

No. of Positions	Position	Area of Specialization	Duration	Consolidated Salary per Month
1	JRF	Mechanical Engineering	Initially for 1 year, which may be extended up to, the duration of the project based on satisfactory performance.	31,000 INR + 16% HRA

*Minimum Qualification:

- Essential Qualification:

1. M.E./M.Tech. Or B.E. /B. Tech. with specialization in Mechanical Engineering or equivalent.
2. GATE qualification in relevant disciplines is mandatory.

- Desired Qualification:

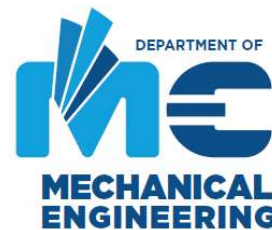
1. Sound knowledge in fundamentals of Heat & Mass Transfer, Fluid Mechanics, and Engineering Mathematics.
 2. Proficient in MATLAB, MS EXCEL, and MS WORD.
 3. Applicants having previous experimental exposure would be preferred.
- Upper age limit: 30 years

Brief Objective of Project:

- Choice for most suitable dry and wet surfaces which can be set as reference for dead and healthy leaves, respectively. All these surfaces cumulatively will make a system called PoSDePS (Portable System for Detecting Plant Stress).



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- Experiments to be conducted in the laboratory as well as field conditions where temperature of various leaves / plants / canopy will be monitored to gather exhaustive set of data. Analysis of the data collected will be used to come up with suitable ranges of CWSI (Crop Water Stress Index) which will directly indicate the condition of a leaf / plant.
- Use the obtained CWSI values to determine the health of a leaf / plant and accordingly convey this information to the farmers / agriculturists for strategic intervention and damage control.

Job Description:

The selected candidate is expected to conduct experiments, both in the laboratory as well as field conditions, gather good data, curate, process, and analyse data, communicate peer reviewed articles, draft patents, and other tasks for the successful completion of the project.

Application Process:

Duly filled application form along with the requested details, scanned copies of certificates, other supporting documents, should be either uploaded through the online portal (<https://apply.iitjammu.ac.in/#/home>) latest by November 20, 2022. Please apply through the [contract/project staff/JRF/SRF] tab on the referred application portal. The applicants can also send their CVs directly to navneet.kumar@iitjammu.ac.in mentioning the **advertisement number** as the subject while drafting the email. Candidates who are already employed should produce a relieving certificate from their employers if selected. The interview will be conducted for all the shortlisted candidates.

Attention:

1. The applicant will be responsible for the authenticity of the information, other documents, and photographs submitted.
2. Merely having the prescribed qualification does not ensure that the candidate would be called for an Interview. The candidates may be shortlisted based on the merit and need for the project.
3. Shortlisted candidates will be informed by e-mail about the interview. Therefore, the candidates must provide valid e-mail IDs, phone number, and other relevant information in their applications.
4. Shortlisted candidates must present themselves for the interview on the interview date with an updated CV and original and attested photocopies of mark sheets/certificates in support of their academic qualifications. Only shortlisted candidates will be called for the interview. The time of the interview will be informed to the shortlisted candidates by e-mail. The interview will be held online.



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5. Candidates who are already employed should produce a relieving certificate from their employers if selected.
6. The last date for receiving the duly filled-in application is 20 November 2022, through an online portal.
7. The date of the interview will be informed to the shortlisted candidates through email.
8. The selected JRF may get an opportunity to pursue Ph.D. at IIT Jammu as per institute norms.

Address for Correspondence:

Dr. Navneet Kumar

605, North Block

Department of Mechanical Engineering

Indian Institute of Technology Jammu

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