

Recruitment Advt. No: IITDH/R&D/Rect./SPR/8.131/BioCyTiH

Date: 14.05.2024

IIT Dharwad is an Institute of National Importance created by an Act of Parliament in 2016. To cater the Institute's requirement under a project in the **Department of Mechanical, Materials and Aerospace Engineering**, IIT Dharwad intends to hold an Online Selection Process for the following temporary position:

S. No.	Particulars	Details
1.	Name of the Position	Junior Research Fellow (JRF)
2.	Number of Positions	1
3.	Essential Qualification	B. Tech or M. Tech degree in Mechanical, Aerospace or other allied Engineering streams selected through a process described through any one of the following: A. Scholars who are selected through National Eligibility Test – UGC NET including lectureship (Assistant Professorship) or GATE. B. The Selection process through National level examination conducted by Central Govt. Departments and their agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.
4.	Desirable Qualification	
5.	Consolidated Emoluments	1) 31,000/- + HRA to Scholars who qualify for process mentioned in 3(A) above. ii) 25,000/- + HRA for others who do not fall under 3(A) above. Those who do not satisfy the requirements for JRF position may be considered for Project Associate – I position with emoluments same as 5(ii)
6.	Tenure of appointment	6 months OR up to Dec 2024 whichever is earlier
7.	Age Limit	Not exceeding 35 years as on the date of selection process for JRF

Job Description:

S. No.	Project Code and Title	Job Description
1.	MMAE/SPR/BioCyTiH/8.131 BioCyTiH Smart VRT Smart Variable Rate Technology (VRT) application to agricultural spray drones for accurate pesticide delivery	<ul style="list-style-type: none">● To carry out comprehensive spray characterisation, such as penetration, drop size, and spray cone angles, by recreating scaled actual field conditions● Development of novel spraying techniques such as variable geometry nozzles, twin fluid nozzles wherever feasible.● Approach the configuration of agricultural spray UAVs ground-up for effective fluid delivery to the target.● Come up with innovative design configurations such as dedicated designs for field crops and plantation crops● Characterize the aerodynamic interaction of propeller air-jets with sprays and utilize the dynamics to our advantage● Build compensatory mechanism for self-adjusting ability of sprays to overcome cross-winds● VRT application of sprays depending on crop-health and soil-health monitoring data, which in turn shall be obtained through aerial surveys and image processing

Details of the Application and Selection Process:

S. No.	Particulars	Details
1.	Schedule	Last date to submit application form: <u>23/05/2024.</u> Date of selection process (tentative): Will be intimated later through email. Any change in the schedule will be notified on the IIT Dharwad website.
2.	Application and Selection process	The candidates are requested to apply through the rolling advertisement for project staff of the institute. Link to application form: https://www.jotform.com/220951115443448 Applications will be screened initially, based on the screening, only the shortlisted applicants will be called for an online interview via online mode. Mere fulfilment of minimum eligibility will not bestow the right for shortlisting. IIT Dharwad reserves the right to screen and shortlist candidates by introducing higher benchmarks. Emails will be sent to all shortlisted candidates.
4.	Documents Required	Applicant should have online version of all original certificates including mark sheets (matriculation onwards), experience certificate(s), monthly emoluments/salary drawn, other relevant documents (including one set of self-attested certificate(s)/document(s) and updated Curriculum Vitae.
5. For any queries candidates may write to surya@iitdh.ac.in		

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. IIT Dharwad reserves the right to increase or decrease the number of advertised posts at the time of selection. Further, IIT 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. She/he 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 surya@iitdh.ac.in. However, enquiry/queries related to eligibility for the post/interpretation of rules will not be entertained.

Assistant Registrar (R&D)
Date: 14.05.2024