# Indian Institute of Information Technology, Sri City, Chittoor

## Advertisement for the Recruitment of Junior Research Fellows (JRFs)

**Reference No:** IIITS/RO/2021/07/SERB-NMICPS/TIHAN/RVP/2021/JRF(S)/Dt.14th Sep. 2022

**Opening Date:** 14th Sep, 2022                    **Closing Date:** 20th Sep 2022

Applications are invited for the posts of Junior Research Fellow (JRF) in a research project entitled "**Advanced Aerial Mapping (AAM) Rider: Yield Detection System for Mango Farms using UAVs**" in reference to the collaborative R&D agreement" (No: CT 835916) executed between NMICPS Technology Innovation hub on Autonomous Navigation Foundation (TiHAN) and IIIT Sri City dated: 6th July 2021.

**Project Summary:**
To develop the solutions for the yield detection in mango farms by capturing the 360 degree images using the cutting edge technological advancements such as Drones, Artificial Intelligence (AI), Internet of Things (IoTs), Computer Vision (CV), etc. The idea is to have the Drone rider who can collect the data from the mango farms. The collected data will be processed with the help of object detection techniques for the mango fruit detection which is required to measure the yield in mango farms.

**JRF Positions available: 2**

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| **Name of Position** | : | Junior Research Fellow (JRF) |
| **Number of Position** | : | 01 (One) |
| **Project Duration** | : | Around 21 Months |
| **Academic Qualifications** | : | B.Tech./B.E. in Electronics and communication/Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants. <br> **and** <br> M.Tech./M.E. in related areas/specializations of Electronics and communication/Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants. |
| **Skills Required (Essential)** | : | Knowledge in Drones/Sensors/Wireless Communication. |
| **Skills Required (Desirable)** | : | (i) Very good hands on in RoS and **standard navigation algorithms**. <br> (ii) Very good in **Python/MATLAB programming** |

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| | | (iii) Good knowledge of radio propagation modeling (statistical and deterministic modeling/ray tracing) <br><br> iv) The preference may be given to the candidates who published papers (paid journals are not considered) in **reputed Journals/Conferences**. |
| **Fellowship** | : | As per the funding agency norm (i.e., for JRF Rs. 31000). No other allowances admissible. |

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| **Name of Position** | : | Junior Research Fellow (JRF) - 2 |
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| **Academic Qualifications** | : | B.Tech./B.E. in Electronics and communication/Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants. <br><br> **and** <br><br> M.Tech./M.E. in related areas/specializations of Electronics and communication/Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants. |
| **Skills Required (Essential)** | : | Programming skills and problem solving skills. |
| **Skills Required (Desirable)** | : | (i) Very good in **Python programming**. <br> (ii) Very good knowledge and hands on in **Computer Vision and Deep Learning**. |
| **Fellowship** | : | As per the funding agency norm (i.e., for JRF Rs. 31000). No other allowances admissible. |

Interested and eligible applicants may submit their application through the following link only (No email submissions are entertained): https://forms.gle/xVYuBHKBUM6Xwf61A   A detailed **Curriculum Vitae** describing the working knowledge as per notification along with soft copies of **Mark Sheets** and **Certificates** should be uploaded. In case of any queries you may contact **yrv.prasad@iiits.in** (PI of the project) w.r.t. to the application process. Selected candidates must be able to report to the institute immediately.

## Note:

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to accept applications at any time, and consider candidates of exceptional credentials without applications. Qualification and experience may be relaxed at any point of time for exceptional candidates.
3. Mere, possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The shortlisting will be done based on the need of the project.
4. Only shortlisted candidates will be informed by email about the interview date. So, the candidate must provide valid E-mail IDs in their applications.
5. Applicants in government/semi-government employment must submit a "No Objection Certificate" from the employer.
6. The first and foremost responsibility of the candidate is to fulfill the jobs' requirements to complete the above mentioned project in a timely manner.
7. Leaving the project before the end of the project is strongly discouraged. Candidates will not be entitled for any experience certificate if leaving the project without completing it.
8. The association between PI and the candidate can be discontinued at any time by giving one month's notice in writing either by the PI of the project to the candidate, or by candidate to the PI of the project.
9. The progress of the project will be monitored continuously and JRF/PA may be asked to leave in case of unsatisfactory performance.
10. Candidates selected for this position can also apply for the regular PhD program in IIIT Sri City, provided they satisfy the eligibility criterion followed by the selection process laid down by the institute.
11. Experience letters will be provided, only if the candidate completes the project.
12. The above mentioned positions are puly temporary, association of the candidates with the institute will automatically end on the closing date of the project.

## About IIITS

Indian Institute of Information Technology Sri City, Chittoor, Andhra Pradesh is a Research and Teaching Institute focused on the core areas of Information Technology: Computer Science, Electronics and Communications, and their applications in other domains. The Institute focuses on development of Technology and Applications that can be transferred for use to Industry and Society. IIITS is an Institution of National Importance setup by Government of India (MHRD), Government of Andhra Pradesh and Industry Partners (represented by Sri City Foundation) as a not-for- profit Public Private Partnership (N-PPP) Society.
Please visit www.iiits.ac.in.