



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D/2021-22/56

03 February 2022

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Research Project at this Institute. The position is purely temporary, initially for a period of 04 Months, and extendable but co-terminus with the duration of the project, on contractual basis with consolidated pay. The requisite qualification, experience and others details are given below:

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| 1. | Project No. | S/SERB/RJN/20210077 | |
| 2. | Project Title | Reflection Symmetry Based 3D Surface Reconstruction and Restoration from Partial Point Cloud | |
| 3. | Name of the Project Investigator | Dr. Rajendra Nagar | |
| 4. | Duration for initial appointment | 04 Months | |
| 5. | Name of the Post | Junior Research Fellow | |
| 6. | Post | 01 | |
| 7. | Consolidate Pay | Rs. 31,000/- | |
| 8. | Minimum Qualification and Experience | <p>Essential Qualification: B.Tech. /M.E./M.Tech. will socialization in Electrical Engineering/Electronics Engineering/Computer Science/Data Science with first class or equivalent. GATE qualification in relevant disciplines is Mandatory.</p> <p>Desired Qualification:</p> <ol style="list-style-type: none">1. Solid fundamentals in 3D Computer Vision, Point Cloud Processing, and Machine Learning.2. Good hands-on experience in any one of the programming languages Python/MATLAB/C/C++. | |
| 09. | Brief description of Project | Given a partial and noisy 3D scan of a symmetric object scanned through a LiDAR 3D scanner, detect all the reflection symmetries of the object. Then, use the detected reflection symmetries and the scanned point cloud to find the implicit representation of the 3D surface of the complete object, and finally find the watertight triangle mesh from the implicit representation. | |
| 10. | Job Description | The selected candidate is expected to | <ol style="list-style-type: none">1. Build an experimental set-up using a 3D LiDAR scanner for collecting 3D point cloud scans of medium scale objects such as buildings.2. Read high-quality publications and implement existing and novel algorithms in the areas of 3D Computer Vision and Point Cloud Processing and Geometry processing. |
| 11. | Maximum Age | Below 35 Years | |

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **14 March 2022**. The candidates are advised to send a soft copy of the application with all relevant documents to recruitment_rnd@iitj.ac.in (*Please mention the advertisement number in the subject line of the email*). *No need to send a hard copy.*

General Instructions to Applicant(s)

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| 1. | The post(s) is purely temporary and contractual for a period of 04 Months, and extension based on satisfactory performance, but co-terminus with the duration of the project |
| 2. | Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected. |
| 3. | Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature. |
| 4. | Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview. |
| 5. | The Institute shall verify the antecedents or documents submitted by a candidate 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 candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated. |
| 6. | Higher initial pay may be given to exceptionally qualified/deserving candidate. |
| 7. | No TA/DA shall be paid to the candidates for attending the interview. |
| 8. | No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview. |
| 9. | Canvassing in any form will be a disqualification. |
| 10. | No interim correspondence will be entertained. |
| 11. | No need to send hard copy. |

Officer In-charge
Research & Development