



# Indian Institute of Technology Jodhpur

## Office of Research and Development

Advt. No.: IITJ/R&D/2021-22/15

11 August 2021

### 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:

|     |                                      |   |
|-----|--------------------------------------|---|
| 1.  | Project No.                          | S/SERB/AJ/20200067  |
| 2.  | Project Title                        | Secure and Robust Coordination and Control of Autonomous Multi-Vehicle Systems with Desired Constraints   |
| 3.  | Name of the Project Investigator     | Dr. Anoop Jain  |
| 4.  | Duration for initial appointment     | 04 Months   |
| 5.  | Name of the Post                     | Junior Research Fellow  |
| 6.  | Post                                 | 01  |
| 7.  | Consolidate Pay                      | 31,000/- +HRA   |
| 8.  | Minimum Qualification and Experience | <p><u>Eligibility:</u><br/>B.E./B.Tech./M.E./M.Tech. with specialization in Electrical Engineering/Electronics Engineering/Mechanical Engineering/Aerospace Engineering or equivalent with First class or equivalent.<br/>GATE qualification in relevant disciplines is mandatory.</p> <p><u>Desirable :</u><br/>Sound knowledge of fundamentals of control theory and Dynamical systems. Proficiency in MATLAB simulations, and prior hands-on experience with real Robotic systems is preferable. The candidate is expected to have good communication skills and ability to Cooperate within a team.</p> |
| 9.  | Job Description                      | The selected candidate is expected to perform MATLAB simulations, help in the experimental set-up, perform experiments on real robotic swarm, and other Tasks for the successful completion of the project.   |
| 10. | Brief description of Project         | This project focuses on the following three main aspects in the multi-agent networked systems: i) Design of distributed control algorithms with desired physical and operating constraints ii) Incorporation of issues related to cyber-security and robustness against malicious attacks iii) Multi-robot validation and experimentation   |

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|    |             | In a laboratory on both ground and aerial vehicles. Note that the implementation of proposed control algorithms on real robotic swarm in a laboratory environment is One of the desirable activities in this project. |
| 11 | Maximum Age | 35 Years  |

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **25 August 2021**. The candidates are advised to send a soft copy of the application with all relevant documents to [recruitment\\_rnd@iitj.ac.in](mailto: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)

|     |  |
|-----|--|
| 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.  | The Institute reserves the right to: (a) conduct written/trade tests for such posts wherever if the circumstances so warrant (b) not filling any of the advertised positions (c) fill consequential vacancies arising at the time of interview from available candidates. The number of positions is thus open to change.  |
| 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.  | No TA/DA shall be paid to the candidates for attending the interview.  |
| 7.  | No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.  |
| 8.  | Canvassing in any form will be a disqualification.   |
| 9.  | No interim correspondence will be entertained.   |
| 10. | No need to send hard copy.   |

Officer In-charge  
Research & Development