



## Indian Institute of Technology (ISM) Dhanbad Jharkhand

### Advertisement for JRF positions under ANRF Project

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| <b>Position</b>                                                                                                                                                                                                                                                                                                                                                                                          | Junior Research Fellow (JRF)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>No. of Position(s)</b>                                                                                                                                                                                                                                                                                                                                                                                | 02                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Project Title</b>                                                                                                                                                                                                                                                                                                                                                                                     | <i>Improving the performance of 6TiSCH and DSME-based Internet of Things Networks</i>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Principal Investigator</b>                                                                                                                                                                                                                                                                                                                                                                            | Dr. Alakesh Kalita, Department of Mathematics & Computing, IIT (ISM) Dhanbad; Email: <a href="mailto:alakesh@iitism.ac.in">alakesh@iitism.ac.in</a>                                                                                                                                                                                                                                                                                                         |
| <b>Job duration</b>                                                                                                                                                                                                                                                                                                                                                                                      | 1 year (can be extended based on the performance up to 3 years)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Job Description</b>                                                                                                                                                                                                                                                                                                                                                                                   | The candidate will work on implementing IoT networks and modifying the 6TiSCH protocol stack to improve performance and reliability. Experience with embedded systems, wireless protocols, and Contiki-NG is preferred. Based on performance and meeting the eligibility criteria, the candidate may be subsequently allowed to enroll for PhD at IIT (ISM) Dhanbad.                                                                                        |
| <b>Essential Qualification</b>                                                                                                                                                                                                                                                                                                                                                                           | B.E./B.Tech/M.Tech/MCA/M.Sc in CSE, Mathematics & Computing, EEE, ECE, Artificial Intelligence, Data Science, or related fields. <b>The candidate must have qualified GATE or NET.</b>                                                                                                                                                                                                                                                                      |
| <b>Age &amp; Relaxation</b>                                                                                                                                                                                                                                                                                                                                                                              | As per the norms of the Govt. of India/DST-ANRF for JRF recruitment.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Fellowship</b>                                                                                                                                                                                                                                                                                                                                                                                        | ₹ 37000/- per month + HRA (as per IIT ISM Dhanbad rules)                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Last Date &amp; Time</b>                                                                                                                                                                                                                                                                                                                                                                              | Interested candidates should email a single PDF [containing (i) CV, (ii) GATE/NET score card, (iii) self-attested copies of all marksheets and certificates starting from 10th class, (iv) proof of work experience (if any)] to PI <a href="mailto:alakesh@iitism.ac.in">alakesh@iitism.ac.in</a> on or before <b>30 June 2025, 6:00 PM</b> . Candidates should write “ <b>Application for JRF position in ANRF Project</b> ” in the subject of the email. |
| Shortlisted candidates will be informed of the date of the interview. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirements of the project. The interview will occur in video-conferencing mode; a link for the same will be shared with shortlisted candidates in due course. |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |