

No: Advt/ IITT/CSRC/2024-25/38

Date:04-12-2024

Applications are invited from eligible Indian nationals for two Junior Research Fellow posts in a sponsored project undertaken in the Department of Computer Science and Engineering.

Temporary Position	Junior Research Fellow (CSE2324003ISROSRIID) - 2 (FULL TIME POSITION – No Part Time Opportunity)
Essential Qualification & Experience	(a) M.Tech/MS/ dual degree in Computer Science & Engineering/relevant discipline with a good academic record (> 6.5/10 CGPA or 65% marks) (b) Candidates with a B.Tech in Computer Science & Engineering from any IIT/IIIT/CFTI and a minimum CGPA of 8/10 or 80% marks Relaxation of CGPA: 6.0 for OBC/EWS, 5.5 for SC/ST/PWD. Relaxation of marks: 60% for OBC/EWS, 55% for SC/ST/PWD Note: 1. Valid NET/GATE Score is required for (a) or (b) 2. If qualified candidates in (a) or (b) are unavailable, a B. Tech/M.Tech candidate without GATE score may be selected as per guidelines Based on performance, there is provision (through a due admission process) to convert to MS (Research) and/or PhD to work in the Research in Intelligent Software & Human Analytics (RISHA) Lab (https://rishalab.in)
Research Area	Software Engineering + Artificial Intelligence
Project Title	On-board Software Verification Automation Platform
Project No.	CSE2324003ISROSRIID
Sponsoring Agency	Indian Space Research Organisation (ISRO)
No. of positions	Two
Consolidated monthly Salary	JRF Rs. 31,000 + HRA as applicable Project Associate – I (GATE qualified/GATE not qualified) as per guidelines
Principal Investigator	Dr. Sridhar Chimalakonda
Department/Centre	Computer Science and Engineering
Maximum Tenure of Assignment	Initially for 1 year, with possible extension for one more year based on performance
Desired Experience	(i) Strong in programming, data structures and algorithms, machine learning (ii) Hands-on experience of software frameworks, techniques and tools (iii) Exposure in building AI and ML pipelines and usage of appropriate libraries

Brief Project Description and Nature of the Work	<p>Today, there is extensive work on the use of AI-based approaches (in particular LLMs) for several software engineering problems (e.g. bug localization, bug detection, bi-directional traceability). However, the focus is predominantly in open-source and industry-settings, and quite limited in the context of critical and satellite software systems. Through this project, we aim to address these software engineering challenges by (i) figuring out novel Non-AI and AI approaches (ii) designing and building practical solutions and tools.</p> <p>The work involves conducting relevant empirical research studies, design and development of approaches and tools, and publication of results.</p>
Age Limit	Below 28 years
Last date application	Dec 19, 2024 (5:00 PM)
Application Link	https://forms.gle/9FSnQxc9fjNoS4wT9

Eligible candidates must attach a detailed CV specifying their Qualifications and Experience with scanned copies of marksheets and certificates from X class till date. A brief statement of purpose (Why they are interested in this project topic?) also to be attached with the application link.

The shortlisted candidates will be informed by Email only. Selection will be based on the qualification, experience, and in-person interview at IIT Tirupati. **No TA/DA shall be paid to candidates appearing for an interview online or offline.** The interview date will be notified to the shortlisted candidates by Email. For any queries send mail to csrc_recruitment@iittp.ac.in

IIT Tirupati also reserves the right to discontinue the position with 1month notice if the performance is not satisfactory.

Dean-CSRC