

No.: Advt/ IIT/CSRC/2024-25/19

Date: 13-08-2024

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.

Position	Junior Research Fellow-02
Essential Qualification	(i) M.Tech/MS/ dual degree in Computer Science & Engineering/relevant discipline with NET/GATE qualified, (ii) B.Tech in Computer Science & Engineering/relevant discipline with NET/GATE qualified CGPA in graduate course: 6.5 or above 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
Desirable Qualification	(a) M.Tech/MS/ dual degree in Computer Science & Engineering/relevant discipline with a good academic record (> 6.5/10 CGPA or 65%) (b) Candidates with a B.Tech in Computer Science & Engineering from any IIT/IIT/CFTI and a minimum CGPA of 8/10 Note: Valid NET/GATE Score is required 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
Sponsoring Agency	Indian Space Research Organisation (ISRO)
No. of Position	Two
Monthly Salary	JRF Rs. 37,000 + HRA as applicable
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	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. The work involves conducting relevant empirical research studies, design and development of approaches and tools, and publication of results.
Age Limit	Below 28 years
Last date application	28 th August, 2024 (5:00 PM By email) csrc_recruitment@iittp.ac.in and to Dr. Sridhar Chimalakonda (ch@iittp.ac.in)

Eligible candidates must send a **detailed CV (maximum 4 pages)** specifying their qualifications and experience **and a brief statement of purpose (Why are you interested, and what makes you qualified?)** on or before **August 24th 2024**. The shortlisted candidates will be informed by **Email only**. Selection will be based on the qualification, experience, and interview. No TA & DA for attending the interview. The interview