

Applications Invited for a JRF Position

(Starting Immediately at the Software Engineering and Testing Group, CSE, IITGN)

Title of the project:

Testing of Pre-trained Large Language Models for Zero-shot Software Engineering Tasks

Principal Investigator (PI): [Prof. Shouvick Mondal](#)

Position being advertised: Junior Research Fellow (one)

Project Start Date: As soon as possible.

Project Duration: The appointment will initially be for a period of one year, and may be extended subject to the satisfactory performance of the selected candidate and subsequent approval from the competent authority.

Project description: In this research project, we aim to: (i) reveal adversarial LLM-prompts that may potentially produce misaligned responses to critical Software Engineering (SE) tasks where issues can be fatal if deployed in safety-critical systems, (ii) focus on functional/non-functional aspects of software testing processes by/for LLMs (and AI Systems), and (iii) investigate whether zero-shot LLM prompt engineering techniques would be able to increase the number of Software Development Life Cycle phases under the umbrella of autonomous Software Engineering.

Funding Agency: Anusandhan National Research Foundation (ANRF)

Fellowship amount: 1st, 2nd year: ₹37,000/-; 3rd Year: ₹42,000/-. HRA @30% will be provided if campus accommodation is not available/availed.

Leaves & Other benefits: As per IITGN norms.

Eligibility:

- The percentage/grade points with respect to the academic qualifications will be a minimum of 60% or equivalent grade from Graduation onwards and 55% or equivalent grade in Classes 10th and 12th.
- Post Graduate Degree in Basic Science OR Graduate/ Post Graduate Degree in Professional Course selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.

Applicants should submit the following documents (**as single PDF**) through the online link (<https://forms.gle/8SxuwY3qyUi5TJq38>):

1. Statement of Purpose (SOP).
2. Detailed Curriculum Vitae (CV).
3. Marksheets/ Pass/ Degree Certificates of Classes 10th, 12th, and All preceding degrees.

Last date for applying: **July 31, 2025.**

For more details, please contact the PI: [\[shouvick.mondal@iitgn.ac.in\]](mailto:shouvick.mondal@iitgn.ac.in)