



Birla Institute of Technology & Science, Pilani

Hyderabad Campus

CALL FOR JUNIOR RESEARCH FELLOW FOR AN ANRF-PMECRG PROJECT

Date: 12/06/2025

Applications are invited from suitable candidates for a Junior Research Fellow (JRF) position to work on the following project sponsored by **Anusandhan National Research Foundation – Prime Minister Early Career Research Grant (ANRF-PMECRG)**, under the supervision of **Prof. Arnab Guha**, Department of Mechanical Engineering, **BITS-Pilani, Hyderabad Campus**, India.

Title of the project: Real-time detection of quorum sensing molecules in infectious human biological samples utilising a quartz crystal resonator operated at a fixed frequency and amplitude for identification of ESKAPE pathogens

Duration of the project: 36 months

Project position and number: Junior Research Fellow (1)

Fellowship Amount: Rs. 37,000 per month plus 30% HRA as applicable for candidates who have qualified GATE, CSIR-UGC NET or any national level examination conducted by Central Government Departments and their agencies and institutions. For other candidates, it will be Rs. 30,000 per month plus 30% HRA as applicable.

Eligibility requirements:

- M.S./M.Sc./MTech. or equivalent degrees in Life sciences/ Biotechnology/ Biochemistry/ Molecular Biology/ Microbiology or a related discipline with at least 60% marks.
- The project will involve experimental work along with some computational studies using in silico interaction tools. The experimental work includes basic molecular biology techniques, real-time PCR, bacterial culture etc.
- Candidates with an inclination for biosensing and point-of-care (POC) diagnostics would be preferred
- Basic knowledge of any programming languages such as MATLAB, Python etc is desirable but not mandatory.

How to apply: Interested candidates with the qualifications mentioned above can send their applications with their CVs giving detailed information about their educational qualifications, research experience, and published research papers, if any, by **20th June 2025 (last date)** to the Principal Investigator, **Prof. Arnab Guha** (guha.arnab@hyderabad.bits-pilani.ac.in) via email (**Subject: ANRF-PMECRG JRF position**). Please note that only shortlisted candidates will be called for an interview for final selection. No TA/DA will be paid for the interview. The selected candidate may be permitted to register for the Ph.D. programme at the BITS, Pilani, Hyderabad campus, subject to fulfilling the institutional eligibility criteria and requirements.

Prof. Arnab Guha (Name of the PI)

Assistant Professor, Mechanical Engineering Department (Designation of the PI)



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