



Indian Institute of Science Education and Research Bhopal
Department of Data Science and Engineering
Bhopal By-pass Road, Bhauri, Bhopal 462066

Advertisement for the post of Junior Research Fellow under ANRF ECRG project at DSE department, IISER Bhopal

Applications are invited from highly motivated candidates for the post of **Junior Research Fellow (JRF)** in the Prime Minister Early Career Research Grant supported by Anusandhan National Research Foundation for the project titled: “**AI-Enabled 3D Mapping Robot for Precision Industrial Automation and Smart Manufacturing**” at the Department of Data Science and Engineering, IISER Bhopal.

Project Description: The project aims to develop AI-enabled robotic vision systems for 3D reconstruction, mapping, and scene understanding using stationary and mobile robots. The research will focus on autonomous 3D scanning, defect detection, dynamic SLAM, multi-sensor fusion, and navigation for real-world industrial environments, with applications in smart manufacturing, inspection, agriculture, mining, and autonomous robotics.

Duration: 12 months, extendable based on performance.

Essential Qualification and Eligibility:

- B.E./B.Tech./B.S. or M.E./M.S./M.Tech or equivalent degree in Computer Science/Electronics/Electrical/Mechanical/Instrumentation/Robotics or a related discipline with a
- Good academic record (first class/division or minimum of 7.0/10.0 CGPA).
- Candidates must have qualified for a national entrance examination (GATE or NET) with a valid score/rank at the time of applying for the post.

Skills Required / Desirable:

- Strong interest & demonstrated experience in robotics, 3D vision or autonomous systems.
- Programming experience in Python and/or C/C++.
- Familiarity with ROS/ROS 2 and robotic software development.
- Experience with cameras, RGB-D/depth sensors, LiDAR, or other perception sensors.
- Hands-on experience with embedded platforms such as Arduino, Raspberry Pi or NVIDIA Jetson.
- Basic knowledge of electronics, sensors, actuators, and robotic systems.

Salary: Rs. 37,000 per month + HRA (18%)

How to apply:

- Eligible and interested candidates are requested to send their application via email to sundaram@iiserb.ac.in with the subject line “**Application for JRF**”.
- Applications contain a cover letter, a detailed CV, the name and email address of two referees, as well as a brief write-up on any previous projects in robotics, 3D vision or autonomous systems if any.
- Applications shall be considered till **20th October 2026**

Only shortlisted applicants will be called for an interview. No interim correspondence will be entertained. No TA/DA will be given. The candidate selected will be expected to join on 1st Nov 2026.

For any queries please contact:

Dr. Sundaram Muthu,

Assistant Professor, Department of Data Science and Engineering

Indian Institute of Science Education and Research Bhopal

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