

Junior Research Fellow (JRF) in the IITGN Robotics Lab IIT Gandhinagar

Broad Subject Area: Control Systems / Robotics

Minimum Qualification: B.Tech/B.E in Mechanical, Electrical, or Electronics Engineering from a reputable institution is required. Candidates should have experience in mechanical design, robot hardware, or robot dynamics simulations. Applicants must have either cleared GATE/NET or possess a postgraduate degree in Mechanical, Electrical, or Electronics Engineering.

Salary: Monthly remuneration will be Rs. 37,000/- per month.
(HRA of Rs. 9,990/- will be provided as per institute norms if accommodation is not available within the institute)

Project: Development of control systems for Robotic Systems.

Desired Background: Strong foundation in one of the areas of dynamical systems, control systems, mechanical design, or robotics hardware is highly desired. Prior experience with building electronics, mechanical design, robotic systems and/or other experimental skills.

No. of posts: 1

Description: 1 years

The successful candidates will have an opportunity to contribute to projects involving developing control systems, control analysis, experimentation and building hardware and building robots with applications in defense, space, and industry. These projects involve multidisciplinary skills including modeling, simulations, development of the hardware prototypes, electronics, coding, and experimental testing.

The candidates are expected to have strong interests and some prior foundation in one of the areas from dynamical systems, mechanical design, electric motor/actuators, controls, robotics, or relevant embedded systems. Familiarity and prior experience with mechanical design, control hardware, or dynamics simulation is a must. The successful candidates are also expected to bring a positive and enthusiastic attitude to the lab and work collaboratively with several other lab members on this project. An open-

mindedness and a willingness to learn new hardware, software and theory skills as the project demands is a must given the multidisciplinary nature of the projects. The successful candidates should be proficient in written and verbal communication, which is necessary to collaborate effectively in a multidisciplinary team environment and present and explain the technical information.

The candidate will work in the IITGN Robotics Lab ([website](#), [youtube channel](#)) and will have plenty of opportunities to interact and collaborate with other labs in mechanical engineering, electrical engineering, and in cognitive sciences. The lab has a vibrant environment and has a diverse and interdisciplinary set of individuals and we work on a range of robotics and control systems projects ranging from fundamental theory and its hardware validation to robotic systems for specific applications (with human subject trials in some cases).

The tenure for this position will be 1 year.

Please submit the resume and a short statement of 250-300 words highlighting your career goals and your motivation to apply for this position (and specifically mention past experience working with mechanical design, control hardware, or dynamics simulation), and a list of referees (preferably three) using [this form here](#) latest by 22 March , 2024. For any questions, you may write to Prof. Harish P. M. at robotics@iitgn.ac.in