Project Assistant position in the area of Robotics

Broad Subject Area: Robotics / Control Systems

Minimum Qualification: Diploma in Mechanical / Electrical / Electronics / Instrumentation Engineering or allied areas with interest/specialization in either robotics or control systems from a reputed institute or university.

Salary Range: Monthly remuneration will be in the range of Rs. 18,000 to Rs. 25,000 per month.

Project: Compliant Robotic Actuators and Self-Learning Robots With Impedance Control.

Desired Background: Strong foundation in either manufacturing or electronics, and an inclination to take on managerial and administrative responsibilities in the functioning of the robotics lab. Prior experience in managing inventory, accounts, and organizing events or prior experience with building robotic systems and/or other experimental skills will be desirable.

No. of posts: 1

Description:

We have an opening for a Project assistant to contribute to various projects in the SysIDEA Robotics lab. The responsibilities will include both technical and administrative responsibilities related to hardware projects in the lab. A substantial portion (possibly more than 50%) of the responsibilities may be administrative in nature such as managing lab inventory, procurement, lab budgets and related financial matters, and other related administrative work. For the remainder of the time, the project assistant will be expected to contribute to projects with heavy experimental as well as simulation components on robotic systems including compliant robotic actuators and self-learning robots with impedance control. These projects involve designing and building hardware systems (with force feedback and force control) and programming on them. Some prior foundation in robotics, machine design, manufacturing, controls or relevant embedded systems will be helpful. Some prior expertise in building robot hardware will be helpful. Familiarity with Python, C, Matlab, or LabVIEW will be a plus. 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 these project. An open-mindedness and a willingness to learn new hardware, software and theory skills as the project demands is a must. Likewise, a willingness to take up and learn a variety of administrative responsibilities in the lab is also a must. 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 SysIDEA 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 is 9 months.

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 a list of referees (preferably three) using [this form here]() latest **by January 05, 2022**. For any questions, you may write to Prof. Harish P. M. at [sysidea@iitgn.ac.in]().