

Post-doctoral Fellow (PDF) position in the area of Robotics/Control Systems

Broad Subject Area: Robotics/Control Systems

Minimum Qualification: PhD in Mechanical/Electrical/Aerospace Engineering or allied areas with specialization in either robotics or control systems from a reputed institute or university.

Salary: Monthly remuneration will be Rs. 50,000 + Rs. 10,000 HRA.

Project: A single-degree-of-freedom robotic exoskeleton for gait rehabilitation

Desired Background: Strong foundation in dynamics and control of robotic systems is highly desired. Prior experience with building robotic systems and/or other experimental skills will be desirable.

No. of posts: 1

**Recent PhD or waiting for Thesis Defense after submission of thesis are eligible.*

Candidates who have completed their earlier post-doctoral fellowship assignment are also eligible.

Description:

We have an opening for Postdoctoral fellows to lead a project on a robotic gait rehabilitation system involving designing and building a robotic system (with possibility force feedback and force control) and testing it with human subjects. The successful candidates are expected to have a strong foundation in robot dynamics and control along with some prior expertise in designing and building robot hardware. Familiarity with NI-based data acquisition systems will be a plus. The successful candidates are also expected to bring a positive and enthusiastic attitude to the lab and work collaboratively with many 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. 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. There is also an opportunity to contribute to another project on developing a modular force-controlled robot with interchangeable hardware components.

The postdoctoral fellow will work in the SysIDEA 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 control systems and

robotics 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 one year and may be extended on mutual requirement and availability. However, it cannot exceed three years.

Please submit the resume with the list of publications, abstract of doctoral research, a short statement of 500 words highlighting your career goals and your motivation to apply to this position, and a list of references (preferably three) to sysidea@iitgn.ac.in addressed to Prof. Harish P. M. in order to process the Post-doctoral fellow application. The deadline for application is **November 10th, 2020**.