



Birla Institute of Technology & Science, Pilani

Pilani Campus

JOB DESCRIPTION

About BITS, Pilani	Birla Institute of Technology & Science, (BITS Pilani) is an Institution declared as Deemed to be University under Sec. 3 of the UGC Act in 1964 and is a renowned science and technology institute. It is in Pilani, Rajasthan, India. In addition to Pilani, BITS Pilani has campuses in Dubai, Goa, and Hyderabad. Work Integrated Learning Programmes (WILP) was established in 1979 and focuses on providing continuing education to working professionals across different sectors. WILP offers BSc, B. Tech, M. Tech, MSc, Diploma and Certificate programmes to working professionals.
Industry/Service	Higher Education
Post/Job Title	Visiting Faculty – Industrial Robotics
Job Type	The tenure will be for two years at a time, with further extensions subject to satisfactory performance.
Reporting to	The Center Head – Smart Manufacturing Competency Center (Bengaluru)
Will also works very closely with	Faculty Members, Non-Academic Staff and WILP Students
No. of positions & Job Location	One position in BITS Pilani (WILP) Off Campus- Smart Manufacturing Competency Centre (SMCC), Bengaluru , and prepared to travel as required.
Principal Accountabilities & Responsibilities	Domain/Areas of Expertise: Industrial Robotics and Robotic Automation for Manufacturing Key Responsibilities: • <u>Deliver courses and workshops</u> in industrial robotics • Conduct hands-on training sessions for working professionals • Support robotics lab development and demonstrations • Mentor student projects and industry-sponsored projects • Develop industrial case studies and experiential learning modules • Support development of robotics-related short-term certification programmes
Qualification and Personal Profile	Mandatory Ph.D. in Mechanical Engineering, Electrical Engineering, Robotics, Mechatronics, or related discipline with research focus in Industrial Robotics
Other Skill and Ability Requirements	Strong understanding of: • Robot kinematics (forward and inverse) • Robot dynamics and motion planning • Trajectory generation and control Hands-on experience with: • 6-axis industrial robots (Epson preferred; ABB, Fanuc, KUKA acceptable) • Robot programming using teach pendant



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	• Offline robot programming and simulation Expertise in: • Pick-and-place applications • Robotic assembly • Palletizing systems • Welding automation • Inspection and material handling tasks Knowledge of: • End-of-arm tooling (EOAT) design and selection • Industrial robot integration • Robot safety standards ◦ ISO 10218 • Collaborative robot safety standards
Compensation	Rs 17 Lakhs per annum commensurate with experience