



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 – Machine Vision and Computer Vision for Manufacturing
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 Machine Vision and Vision-Based Automation Key Responsibilities: • <u>Deliver courses and workshops</u> in machine vision and industrial vision systems • Conduct practical demonstrations and hands-on sessions • Support development of machine vision labs and industrial applications • Mentor student and industry projects related to computer vision • Develop industrial inspection and automation case studies • Support AI/vision integration initiatives at SMCC
Qualification and Personal Profile	Mandatory Ph.D. in Mechanical Engineering, Electrical Engineering, Electronics, Computer Science, AI/ML, or related discipline with research focus in Machine Vision or Computer Vision.
Other Skill and Ability Requirements	Strong understanding of: • Image acquisition systems • Industrial lighting and optics • Camera selection and calibration • 2D vision systems ○ Inspection



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	○ Measurement ○ Sorting Familiarity with: • Basics of 3D vision ○ Depth sensing ○ Stereo vision Hands-on experience with: • Industrial vision platforms: ○ Cognex ○ Keyence ○ Omron ○ Demeter Skills in: • Image processing techniques: ○ Thresholding ○ Edge detection ○ Pattern matching Application Areas: • Defect detection • Dimensional measurement • Alignment and robotic guidance
Compensation	Rs 17 Lakhs per annum commensurate with experience