

JOB DESCRIPTION (Career Kickstarter)

Designation	Development Engineer
School/Department	School of Engineering /Mechatronics (MTN)
Number of Positions	1
Duration of Role	6 to 12 months

KEY RESPONSIBILITIES
<ul style="list-style-type: none"> • Design and integrate automated industrial learning laboratory activities incorporating the latest technologies such as RFID systems, IO-Link sensors, HMI interfaces, and machine vision technologies. • Develop and configure control systems, including PLC programming, sensor integration, and HMI visualisation, for laboratory work. • Test, troubleshoot, and optimise system performance to ensure reliability, efficiency, and feasibility. • Prepare technical documentation, system diagrams, reports, and user guides for deployed solutions. • Collaborate with cross-functional teams, including Electrical & Electronic Engineering (ELN), Computer Engineering (CEN), and multidisciplinary teams across other schools, e.g., IIT, BUS, and ASC. • Stay updated with emerging technologies in industrial automation, IIoT, and smart manufacturing to support innovation initiatives.

PREREQUISITES
<ul style="list-style-type: none"> • Qualification in a related engineering field, such as mechatronics, electronics, computer engineering and IT. • Domain skills in automation and control systems, industrial communication, IIoT, machine vision systems, and programming industrial controllers. • Experience in applying and integrating the domain skills mentioned is preferred (e.g., in Major Project or Student Internship Programme) • Familiarity with data visualisation tools (e.g., Tableau, Power BI) is preferred. • Strong written and verbal communication skills. • Effective presentation skills • Good interpersonal skills with the ability to collaborate across teams • Analytical thinking with attention to detail • Able to manage multiple priorities and meet deadlines • Positive attitude and willingness to learn • Able to work independently with minimal supervision when required