

Project Code	E2_SAND_01	
Project Details	Internship Period	June 2024 to May 2025
	Preferred Disciplines	First Preference: <ul style="list-style-type: none"> • Electronic Engineering Second Preference: <ul style="list-style-type: none"> • Computer Science
	Project Name	Automation on monitoring and management in Telecom Systems
	Business Objective(s)	Enhance efficiency on Telecom workflows and systems by process automation.
	Project Description	<p>Using Microsoft Power Apps, Power BI, Power Automate and Microsoft Form or Python to develop automation program for Telecom Network Management systems.</p> <p>The Intern can be familiar with various programming language, e.g. Microsoft Power Platform, python, machine learning, AI and also enterprise-scale on Telecommunications networks including but not limited to Data Networking, Transmission architecture, Radio networks, Telephony system and enterprise server systems.</p> <p>Developing applications in automating network operations and alarm monitoring to deepen the insight.</p>
	Required Skills	<ul style="list-style-type: none"> • Knowledge in data visualization, analysis tools and familiarization in using Power Apps, Power BI and Power Automate and Microsoft Form • Proficiency in programming like Python or Perl for developing back-end solutions • Knowledge in computer, networking and cybersecurity is added advantage

Project Code	E2_SAND_02	
Project Details	Internship Period	June 2024 to May 2025
	Preferred Disciplines	First Preference: <ul style="list-style-type: none"> • Computer Science • Computer Engineering Second Preference: <ul style="list-style-type: none"> • Electronic Engineering
	Project Name	Automating Security CCTV and Access Control Systems for Daily Operations
	Business Objective(s)	<ul style="list-style-type: none"> • Develop software applications/monitoring & control tools for electronic Security CCTV and Access Control Systems • Develop e-forms for security operations' team to streamline/automate processes in daily security operation
	Project Description	<ul style="list-style-type: none"> • Through the on-job training, the intern will learn about the engineering knowledge of security CCTV and Access Control Systems and practical works procedures of security operations. Coordination and collaboration with other parties may be required which shall help the intern to enhance his/her interpersonal skills. • The intern will also have the opportunity to gain the hand-on experience on software applications/tools development to automate/streamline the current process/workflows.
	Required Skills	<ul style="list-style-type: none"> • Strong software programming and coding skills in Python/ MS Power Automate/ Power BI/ Visual Basic etc.

Project Code	E2_SAND_03	
Project Details	Internship Period	June 2024 to May 2025
	Preferred Disciplines	First Preference: <ul style="list-style-type: none"> • Electronic Engineering Second Preference: <ul style="list-style-type: none"> • Information Technology
	Project Name	Smart Metering Programme
	Business Objective(s)	Supply and connect smart meters for new customers and convert all existing meters and smart-ready meters into fully functioning smart meters to enable all CLP Power's customers to benefit from Advanced Metering infrastructure.
	Project Description	Project Objectives: <ul style="list-style-type: none"> • To improve the overall connectivity, smart meter data collection to enable better grid operation efficiency and customer experience • To analyse AMI programme process with relevant subject matter experts to resolve technical hurdles, communicate and align with a wide range of stakeholder (both technical and non-technical) to cultivate common visibility on the programme and drive alignment on the way forward
	Required Skills	<ul style="list-style-type: none"> • Data analysis and visualisation via Excel and/or Power BI

CLP Internship Programme 2024

Project Outline: Sandwich – Electronic Engineering

Project Code	E2_SAND_04	
Project Details	Internship Period	June 2024 to May 2025
	Preferred Disciplines	First Preference: <ul style="list-style-type: none"> • Electronic Engineering Second Preference: <ul style="list-style-type: none"> • Information Technology
	Project Name	Smart Metering Development and Operation
	Business Objective(s)	<ul style="list-style-type: none"> • Identify and source potential smart meters to support CLP's AMI deployment • Ensure the delivery of high-quality meter data by implementing efficient on-site and remote reading processes, as well as robust data validation procedures
	Project Description	Project Objectives: <ul style="list-style-type: none"> • To conduct smart meter sample evaluation to enlarge smart meter supplier source • To establish control procedures and monitoring tools, such as a dashboard, to effectively measure and manage AMI operations. • To establish key performance indicators (KPIs) and critical success factors (CSFs) specifically tailored for AMI operations • The activities to achieve the objective potentially include reviewing the existing operations, analysing connectivity information, enhancing associated processes for issue identification and resolution, collaborating with relevant subject matter experts to overcome technical challenge.
	Required Skills	<ul style="list-style-type: none"> • Data analytics • Power BI / Python • Process review • Electricity energy measurement • Telecommunication

Project Code	E2_SAND_05	
Project Details	Internship Period	June 2024 to May 2025
	Preferred Disciplines	First Preference: <ul style="list-style-type: none"> • Electronic Engineering Second Preference: <ul style="list-style-type: none"> • Electrical Engineering
	Project Name	Process Automation for Telemetry Commissioning and Equipment Evaluation
	Business Objective(s)	<ul style="list-style-type: none"> • To understand the branch's operational practices such as telemetry equipment commissioning and product evaluation processes and identify opportunities in process automation. • To develop an automation solution after in-depth study on the operational and technical requirements to facilitate the branch to handle the growing project needs.
	Project Description	<p>Telemetry equipment forms an integral part in the power system, enabling System Control Engineers to remote monitor the primary plant status and execute control commands, thereby speeding up the power restoration.</p> <p>The intern will work independently, with guidance from a Senior Engineer, to study the telemetry equipment commissioning and evaluation processes, and make use of telemetry testing tools to develop an automation solution for telemetry commissioning and evaluation.</p> <p>Apart from the internship project, the intern will also be able to familiarise with CLP's power supply network and the associated secondary systems, and contribute in departmental workforces to support the business.</p>
	Required Skills	<ul style="list-style-type: none"> • JavaScript