Project Code	ME_SAND_01	
Project	Internship Category	Sandwich
Detail	Internship Period	Jun 2022 to May 2023
	Preferred Discipline	First Preference:
		Mechanical Engineering
		Other Preference:
		Mechanical Engineering
	Project Name	CCGT D2 - Mega CCGT Project: Project Quality Management
	Business	To support the effective implementation of project
	Objective(s)	quality requirements for manufacturing and
		construction to meet with CLP's expectations for a
		timely, safe, efficient and quality compliant project delivery
		<ul> <li>To achieve the Project Goal and meet the</li> </ul>
		requirements of the Project Quality Objectives, the
		assignee will ensure the specific quality requirements
		are communicated and complied by Contractors
	Project Description	CLP is committed to the continual improvement of
		high standards of Quality on all Projects The
		construction of D2 CCGT is designed for the
		attainment of required quality level to meet the
		business needs. The successful candidate will joint the
		CCGT D2 Quality Branch to ensure the Project Quality
		Plan and requirements are applied throughout the
		project phases until handover by
		<ul> <li>Providing support in developing and implementing the field inspection and test plans (ITP), project specific</li> </ul>
		procedures and/or work instructions
		<ul> <li>Compiling relevant quality statistics/KPI's and</li> </ul>
		identifying quality shortfalls and recommending
		remedial measures
		Participating inspection during construction for
		ensuring the quality requirements identified in the
		Quality Control Plan are fulfilled.
	Domuined Chills	
	Required Skills	Able to comprehend technical drawings
		Good at numerical
		Excellent communication skills
		Able to multi-task as priorities change
		<ul> <li>Able to use initiative and work independently</li> </ul>

Project Code	ME_SAND_02	
Project	Internship Category	Sandwich
Detail	Internship Period	Jun 2022 to Aug 2023
	Preferred Discipline	First Preference: Mechanical Engineering Other Preference: Electrical,Electronic Engineering or IT
	Project Name	Power Plant Generation Efficiency & Reliability Monitoring
	Business Objective(s)	<ul> <li>To monitor electricity generation power plant condition and performance, improve generating unit reliability &amp; availability</li> <li>To review the existing processes and provide improvement suggestion</li> <li>To develop effective tools to streamline and improve the upstream data processing</li> </ul>
	Project Description	<ul> <li>The candidate will have a comprehensive on the job training on:</li> <li>EtaPRO - Asset Performance and Condition Monitoring System, build up model and monitor power station to improve asset performance, recognize anomalies. sooner, decrease unplanned downtime, and manage data effectively</li> <li>Analyze generation statistic data to propose recommendation to manage unit efficiency and availability in order to meet our station Key Performance Index target</li> <li>Generation Efficiency Monitoring System (GEMS), which monitor the electricity generation &amp; fuel consumption</li> <li>Generation Statistics &amp; Availability Reporting (GSAR) System, which monitor generation unit reliability and availability measures</li> </ul>
	Required Skills	<ul> <li>Modeling and programming skill</li> <li>Excellent in Excel VBA</li> <li>Advance Excel User</li> <li>Analytical &amp; critical thinking</li> <li>Sound technical and engineering skill</li> <li>Good computing knowledge</li> </ul>

Project Code	ME_SAND_03	
Project	Internship Category	Sandwich
Detail	Internship Period	Jun 2022 to May 2023
	Preferred Discipline	First Preference:
	•	Mechanical Engineering
		Other Preference:
		Nil
	Project Name	Turbine condition monitoring and inspection scheduling
		optimization
	Business	<ul> <li>To optimize the recording and monitoring of the</li> </ul>
	Objective(s)	condition and operation history of the turbine and
		related components
		<ul> <li>To develop effective tools to streamline the</li> </ul>
		scheduling of turbine inspections
	Project Description	<ul> <li>To maintain high efficiency and reliability of the</li> </ul>
		generation units, routine inspections are carried out
		at certain intervals, according to the condition of
		different components of the unit and the operation
		status. The inspection scheduling consists of unit
		condition monitoring, estimation of future unit
		operation mode, coordination with various teams,
		etc.
		The candidate is expected to understand the
		inspection criteria of different components of the
		units and subsequently streamline the process of
		recording the operation and inspection history of
		different components
		Effective tools should be developed for estimating the increase time interval based on the recorded data and
		inspection interval based on the recorded data and
		estimations, with agile response to changes in
		operation regime
		<ul> <li>Application of innovative measures in unit condition monitoring and outage planning would be</li> </ul>
		appreciated.
	Required Skills	Excellent in MS excel (knowledge in VBA will be an
		advantage)
		<ul> <li>Strong analytical skill</li> </ul>
		Strong statistical knowledge
		Good communication skill
		<ul> <li>Able to work with limited supervision</li> </ul>

Project Code	ME_SAND_04	
Project Detail	Internship Category	Sandwich
	Internship Period	Jun 2022 to May 2023
	Preferred Discipline	First Preference:
		Mechanical Engineering
		Other Preference:
		Civil Engineering
	Project Name	Study on Project Planning of Hong Kong Off Shore Wind Farm
		Project
	Business	<ul> <li>Assist to generate an achievable project programme</li> </ul>
	Objective(s)	to ensure Hong Kong Off Shore Wind Farm Project
		could be commissioned according to target schedule
		under special environment and governance in Hong
		Kong and perform schedule risk analysis (SRA).
		Different risk mitigation measures and contingencies
		are considered in project planning stage
	Project Description	A Hong Kong Off Shore Wind Farm with off-shore     what at its multiple developed for conservation of PE with
		substation will be developed for generation of RE with
		electrical energy export through HV submarine cables to connect to the power grid at the landing point.
		<ul> <li>The intern is expected to study and compare similar</li> </ul>
		wind farm projects in foreign countries including
		Mainland China so as to identify any critical factors
		and constraints in project planning by considering the
		special environment and governance in Hong Kong
		The intern, based on his/her mechanical
		engineering/civil engineering background, should be
		able to input and comment on any risk mitigation
		measures, contingencies, alternatives and other
		critical successful factors in the project development
		and planning stage
		• The intern is excepted to acquire knowledge in basic
		system design and system interface of off-shore wind
		farm platform after completion of the internship
	Required Skills	General knowledge in generation of renewable energy
		(RE) especially in off shore wind farm platform
		General project management skill for identification of
		critical paths and analysis of schedule risks
		General knowledge of wind turbine and latest
		technology in construction of wind farm platform
		could be an advantage

Project Code	ME_SAND_05	
Project Detail	Internship Category	Sandwich
	Internship Period	Jun 2022 to Jun 2023
	Preferred Discipline	First Preference:
		Mechanical Engineering
		Other Preference:
		Other engineering disciplines
	Project Name	Operation and maintenance readiness of new power projects
	Business Objective(s)	<ul> <li>Reliability Availability and Maintainability review of new Open Cycle Gas Turbine (OCGT) project.</li> </ul>
		<ul> <li>Setting up O&amp;M infrastructure and business systems for OCGT project.</li> </ul>
		Spares selection for new projects
		Thermal Power Plant Operational performance reporting and benchmarking
	Project Description	<ul> <li>To support supervisor to review implementation of Asset Management Standards at new power projects to achieve operational readiness in advance of startup</li> <li>Involve in identification and selection of spare parts of new build</li> <li>Involve in Information Technology Plan and road-map</li> </ul>
		<ul> <li>of OCGT</li> <li>To collect key performance indicators of operational plants and prepare annual reports and carry out benchmarking</li> <li>Operational Readiness program implementation for OCGT.</li> </ul>
	Required Skills	MS Excel and Power Point