

CLP Internship Programme 2021

Project Outline - Environmental Affairs

Project Code	EV_SAND_01	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to May 2022
	Preferred Discipline	First Preference: Environmental Science or Engineering Other Preference: N/A
	Project Name	Towards a comprehensive environmental monitoring of power stations
	Business Objective(s)	<ul style="list-style-type: none"> • To review existing environmental performance monitoring and environmental data quality management in BPPS and CPPS • To benchmark with international standard and best practices of environmental monitoring and its data quality management in coal-fired and gas-fired power stations • To develop a guidance document for management of relevant environmental monitoring and data quality in CLP's power stations in Hong Kong
Project Description	<ul style="list-style-type: none"> • In order to provide and supply reliable and sustainable energy while having environmental impact under control, the Environment Team of Safety, Health, Environment & Quality (SHEQ) Department, Generation Business Group (GBG) is the frontier of environmental performance monitoring of CLP's power stations in Hong Kong, such as stationary source emissions, ambient air quality, greenhouse gas accounting, effluent discharge and waste disposal / recycling. • In this project, the desired candidate is required to: <ul style="list-style-type: none"> ○ Review existing environmental monitoring programme including the technology adopted, process and data management ○ Benchmark with international standard and best practices of environmental monitoring and its data quality management in power industry ○ Identify opportunities for improvement and recommendations 	
Project Deliverable	<ul style="list-style-type: none"> • Develop a guidance document to categorize the necessary environmental monitoring for coal-fired and gas-fired power stations, as well as the procedures for the associated data management • A final presentation 	

	Required Skills	<ul style="list-style-type: none">• Below knowledge / skill are considered as advantages:<ul style="list-style-type: none">○ Environmental monitoring such as air emissions, ambient air quality, water quality monitoring, etc.○ Local environmental policies and regulations○ Data quality management and programming language such as VBA, Python
	Learning	<ul style="list-style-type: none">• The management, monitoring, reporting and analytics of environmental performance of power stations in practice• The implementation of an ISO 14001 Environmental Management System

CLP Internship Programme 2021

Project Outline - Environmental Affairs

Project Code	EV_SUM_01	
Project Detail	Internship Category	Summer
	Internship Period	June 2021 to September 2021
	Preferred Discipline	First Preference: Environmental Science & Management, Environmental Engineering Other Preference: Civil Engineering, Chemical Engineering
	Project Name	Environmental Data and Trend Review and Analysis
	Business Objective(s)	<ul style="list-style-type: none"> • Following to the study of emerging environmental risks, key issues' trends and practices should be reviewed regularly for determining upcoming environmental objectives and targets • Review the latest emerging environmental issues and trends that are relevant to both fossil and renewal energy • Determine key issues to facilitate the preparation of annual Environment Interim Report
	Project Description	<ul style="list-style-type: none"> • Gather and review latest environmental trends and issues related to emissions, waste management, life cycle assessment, circular economy, reporting requirements etc. • Establish an information resource list for obtaining relevant information for further review • Gather information from regions regarding operating assets' specific requirements • Perform data and trend analysis on key issues and perform benchmarking study on our environmental performance against industrial practices, other relevant parties, different regions etc. • Provide Recommendations for way forward in order to prepare for the latest/ upcoming requirements
	Project Deliverable	<ul style="list-style-type: none"> • Progress update report for the project (monthly) • List of latest environmental requirements with comparison across Regions • Trend analysis on different aspects of environmental performances • A final report • Presentation of the findings
	Required Skills	<ul style="list-style-type: none"> • Basic knowledge on environmental aspects • Good analytical skill • Proficient in Microsoft Office (Excel, Word, PowerPoint)

		<ul style="list-style-type: none">• Data visualization & communication
	Learning	<ul style="list-style-type: none">• Understanding on environmental requirements of utility sector in different regions• Knowledge on managing environmental performances in generation assets• Methodology on measuring and analysis performance trends