

CLP Internship Programme 2021

Project Outline - Energy Engineering

Project Code	EN_SAND_01	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to May 2022
	Preferred Discipline	First Preference: Energy Science and Engineering Discipline Other Preference: Environmental Affairs Discipline
	Project Name	Development on Renewable Energy Market
	Business Objective(s)	<ul style="list-style-type: none"> • To support the development of renewable energy (RE) • To facilitate the team on providing intelligence on the market trends as well as monitoring the application status of Feed-in tariff • To support the team on add-hoc projects and other initiatives relating to customer and business development
	Project Description	<ul style="list-style-type: none"> • To provide support on application status and data analysis of RE initiatives • To support the team on the IT system development and enhancement • To conduct market intelligence on the latest trends of RE market development in HK from media, customers, internal stakeholders, etc.
	Project Deliverable	<ul style="list-style-type: none"> • Prepare regular report of application status and analysis • Develop/enhance IT systems with expected results • Provide regular updates on the trends and news of RE market development • Enhance data analysis in terms of progress monitoring, cost effectiveness and achievement review
	Required Skills	<ul style="list-style-type: none"> • Good presentation and excellent command of spoken and written Chinese and English • Assertive communication • Proficient in PC application, e.g. Excel, Microsoft Word, PowerPoint • Well-organised and with good analytical and numerical capability
Learning	<ul style="list-style-type: none"> • RE market and its future development • Analytical capability with advanced analytics tools (e.g. Dashboard, Power BI) 	

CLP Internship Programme 2021

Project Outline - Energy Engineering

Project Code	EN_SAND_02	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to May 2022
	Preferred Discipline	First Preference: Energy Science and Engineering Discipline Other Preference: Environmental Affairs Discipline
	Project Name	Business and EE&C Development for China and HK
	Business Objective(s)	<ul style="list-style-type: none"> • To conduct researches and analyses relating to power market reform and renewable energy in both China and overseas markets, market intelligence, market trends and benchmarking in South China • To support the team to maintain the good relationship with the power supply bureau of the major cities in Guangdong Province for learning their best practice, electricity market reform status and new technology applied for their business and also maintain regular engagement with the HK based customers • To support the development of energy efficiency & conservation (EE&C) initiatives and monitor the application status of different EE&C subsidy programmes launched in Hong Kong
	Project Description	<ul style="list-style-type: none"> • Study the reform of China power market and renewable energy in both China and overseas markets, market intelligence, market trends and benchmarking in South China • Identify the advanced technology development and innovation of electricity power supply bureau of China which may be applicable to CLP • Develop strategic plan to highlight the potential business opportunities in the electricity market reform of China • Develop the potential value-added services for sharing with Power Supply Bureau of China for maintaining the good relationship • Support the team on IT system development and enhancement • Provide support on data analysis about different EE&C subsidy programmes
Project Deliverable	<ul style="list-style-type: none"> • Research study for energy business development in South China and overseas markets • Development of engagement plan for Power Supply Bureau of China 	

		<ul style="list-style-type: none"> • Enhance report and analysis of different EE&C subsidy programmes launched in Hong Kong • Develop/ enhance IT systems
	Required Skills	<ul style="list-style-type: none"> • Good presentation and excellent command of spoken and written Chinese and English, including fluency in Putonghua • Assertive communication • Project management • Proficient in PC application, e.g. Excel, Word, Powerpoint, etc. • Good analytical and numerical capability
	Learning	<ul style="list-style-type: none"> • Energy market and business development in South China and overseas markets • Hong Kong electricity market and its future development • EE&C development in Hong Kong

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Project Outline - Energy Engineering

Project Code	EN_SAND_03	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to May 2022
	Preferred Discipline	First Preference: N/A Other Preference: N/A
	Project Name	RCx Charter Programme and EE&C Initiatives Development
	Business Objective(s)	<ul style="list-style-type: none"> • Uplift customer knowledge on retro-commissioning (RCx) and facilitate the implementation of RCx in commercial and industrial customers via the RCx Training and Charter Programme • Develop other energy efficiency and conservation (EE&C) initiatives to support the achievement of energy saving targets under the Scheme of Control • Promote company image on driving EE&C initiatives via variety of communication/promotion channels, and arouse public awareness on pursuing these initiatives
	Project Description	<ul style="list-style-type: none"> • RCx Training & Charter Programme <ul style="list-style-type: none"> ○ Partner with third parties e.g. University, HKGBC, HKPC to provide a recognised RCx training course for our customers ○ The course will be run for a year and is targeted to engage 100 companies, i.e. target around 300 customers representatives, for participating this programme ○ The participating companies have to sign a charter and commit to apply RCx in their buildings within 2 years • Development of other EE&C initiatives to support energy saving targets <ul style="list-style-type: none"> ○ Engage potential customers / vendors to promote CLP EE&C initiatives including Eco Building Fund, Energy Audit and Electrical Equipment Upgrade Scheme ○ Identify latest energy saving technologies and build pilot case for Eco Building Fund application. ○ Conduct site visit to provide energy saving advices to customers
Project Deliverable	<ul style="list-style-type: none"> • RCx Training & Charter Programme <ul style="list-style-type: none"> ○ Uplift the knowledge of our customers on RCx ○ Promote our EE&C initiatives (e.g. Eco Building Fund) 	

		<ul style="list-style-type: none"> ○ Support customers to implement RCx projects ● Development of other EE&C initiatives to support energy saving targets ○ Boost up number of applications of CLP EE&C initiatives ○ Improve customer satisfaction ○ Support to meet our SoC Energy Saving Target.
	Required Skills	<ul style="list-style-type: none"> ● EE&C knowledge ● RCx knowledge ● Communication skills
	Learning	<ul style="list-style-type: none"> ● EE&C and RCx related technical knowledge ● Interpersonal skills and communication skills ● Programme management skills ● Data analytic skills ● Marketing and Promotion skills

CLP Internship Programme 2021

Project Outline - Energy Engineering

Project Code	EN_SAND_04	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to June 2022
	Preferred Discipline	<p>First Preference: Energy, Electrical, Building Services Engineering & Mechanical Engineering</p> <p>Other Preference: Engineering related</p>
	Project Name	Innovation Solution for promoting Electric Vehicles in Hong Kong
	Business Objective(s)	<ul style="list-style-type: none"> • To promote wider adoptions of Electric Vehicles in Hong Kong • To develop EV related value added services for CLP's customers
	Project Description	<ul style="list-style-type: none"> • Develop the web portal and other innovation solutions for EV promotions: <ul style="list-style-type: none"> ○ Enrich the charging location map with more chargers and the corresponding real-time status ○ Develop and provide on-line self-service program / calculator to estimate fuel consumption, cost and emission between ICE and EV ○ Establish new web-page(s) containing information of EV, such as benefits of EV, how EV works, EV technical consideration when selection, EV maintenance tips, different charger types / charging mechanisms, FAQ for general enquiries, CLP's decarbonization vision and mission ○ Provide on-line power supply application (similar to FiT application) and application status checking ○ Update EV latest news and provide locations in the websites for accommodation of external link to latest EV technologies, news of Govt' EV scheme, EV events and external services providers
	Project Deliverable	<ul style="list-style-type: none"> • Deliver new web portal and other innovation solutions for EV promotion with the following new features: <ul style="list-style-type: none"> ○ EV charging location map with status update ○ Online enquiry handling knowledge ○ Environmental benefits and emission calculation for EV and ICE model ○ EV selection ○ EV services
	Required Skills	<ul style="list-style-type: none"> • Website or IT related skills

		<ul style="list-style-type: none">• Excel for mathematical and statical analysis• Computer programming• Basic electrical / energy engineering knowledge / EV related knowledge• Technologies on energy efficiency and conservation• Communication skills.• Attention to details and data analytics
	Learning	<ul style="list-style-type: none">• Project Management• System analysis and translation of technical requirements to user requirement• Product development to meet customer need• Web service development• Event Management

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Project Outline - Energy Engineering

Project Code	EN_SAND_05	
Project Detail	Internship Category	Sandwich
	Internship Period	June 2021 to May 2022
	Preferred Discipline	First Preference: Energy Engineering Other Preference: Business
	Project Name	Overview of Domestic Energy Use in HK Residential Development
	Business Objective(s)	<ul style="list-style-type: none"> To conduct a detailed analysis on domestic energy use in Hong Kong which covers existing, new and a projection for the future by making reference to results from desktop and field researches, surveys, customers' responses to marketing campaigns etc. To make a recommendation on the promotion strategy to increase domestic energy use in Hong Kong with consideration to the results from the detailed analysis as well as researches on oversea markets To provide technical and coordination support on electrical planning and design of new residential development projects as well as marketing support on planning, implementation and evaluation of marketing campaigns for residential customers
	Project Description	<ul style="list-style-type: none"> The domestic energy market is a contestable one with fierce competition from Towngas. CLP has launched a series of marketing campaigns to promote adoption of domestic electric applications which include promotion for sale of electrical appliances and cooking videos for highlighting the benefits of electric cooking. In terms of the new residential development projects, we have been engaging developers with residential development projects to encourage the adoption of All Electric Home. The Project "Overview of Domestic Energy Use in HK Residential Development" will serve as a useful means to thoroughly analyze the current situation by studying the market with an all-rounded approach and proposing recommendations for promotion strategies in preparation for the future.
Project Deliverable	<ul style="list-style-type: none"> A detailed analysis on domestic energy use in Hong Kong which covers existing, new and a projection for the future 	

		<ul style="list-style-type: none"> • A proposal to recommend the promotion strategy for increasing the domestic energy use in Hong Kong with consideration to the results from the detailed analysis as well as researches on overseas markets • Provide technical support on Energy Efficiency & Conservation design for incorporating into planning of residential development projects • Produce marketing materials for campaigns targeting mass market as well as professionals • Establish a database for hosting the data collected and enabling it with analytical capabilities
	Required Skills	<ul style="list-style-type: none"> • Knowledge in data analytics • Familiar with MS Office, in particular Excel and Powerpoint • Ability to conduct desktop researches and compile reports with findings
	Learning	<ul style="list-style-type: none"> • Acquire knowledge and skills for conducting a detailed analysis on domestic energy use in Hong Kong by considering and supplementing the results from different perspectives • Gain in-depth understanding on the energy markets of Hong Kong as well as overseas • Gain experience in dealing with customers and various stakeholders through meetings, on-site inspections and marketing events • Sharpen critical thinking, analytical, planning, communication and presentation skills through practical experience

CLP Internship Programme 2021

Project Outline - Energy Engineering

Project Code	EN_SUM_01	
Project Detail	Internship Category	Summer
	Internship Period	July 2021 to September 2021
	Preferred Discipline	First Preference: Mechanical Engineering Other Preference: Electrical Engineering
	Project Name	Renewable assets data analysis, benchmarking & reporting
	Business Objective(s)	<ul style="list-style-type: none"> Identify Opportunities to enhance renewable asset performance through
	Project Description	<ul style="list-style-type: none"> Assist to enhance monitoring and data analysis platforms / channels for solar and wind asset in CLP China's portfolio Perform benchmarking analysis on KPIs of CLP China's renewable asset portfolio Study business impacts caused by long-term extreme weather and climate change impacts Assist on KPI and management reporting work
	Project Deliverable	<ul style="list-style-type: none"> Objectives of Data Analytics platform Preventive maintenance Optimize Assets performance Culture change on O&M management Extreme weather and climate change analysis
	Required Skills	<ul style="list-style-type: none"> Basic understanding of hydro, wind, solar generation technology Good analytical, problem solving, communication skills Basic software / coding knowledge
Learning	<ul style="list-style-type: none"> Renewable Energy Data Analytics Generation Asset Management 	