CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_01	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • Information System **Other Preference:** • Marketing
	Project Name	Digital Transformation for Company-Wide End Users
	Business Objective(s)	Enable smooth digital adoption experience for company-wide users
	Project Description	• Support digital transformation initiatives for company-wide end users • Support the team and have opportunity to be at the forefront to test new technology and brainstorm use cases to promote digital technology • Being intensively supporting change management function to plan and execute suitable promotion/communication about new technology/technology change for company-wide end users
	Required Skills	• Proactive to adopt new digital tools, i.e. develop automation and dashboard • Strong professional language proficiency in spoken and written Chinese and English. Additional skills in Mandarin would be an advantage • Good copywriting and report-design skill for company broadcast

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_02	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jan/2023 to Dec/2024
	Preferred Discipline	**First Preference:** • Computer Science **Other Preference:** • IT / Business Analytics
	Project Name	Asset Health Management System / Customer Experience
	Business Objective(s)	• To implement a system that will provide condition based and predictive asset health assessment of critical assets (transformers, switchgear, overhead lines and cables) • To implement a 360 view of our customers and support the CX transformation agenda
	Project Description	• The intern will be responsible for assisting the project with data analytics, data integration and project management tasks • They will receive training on SQL, Python, CLP's Azure Data Analytics Platform and Databricks..
	Required Skills	Databases Programming and Scripting (Python / SQL) Cloud

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_03	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • Engineering **Other Preference:** • IT
	Project Name	Smart Grid Transformation
	Business Objective(s)	To deliver horizon 1 of the smart grid transformation projects

	Project Description	• The intern will work with the Business Analyst to analyse requirements, apply analytic thinking to determine if requirements are viable, appropriate or fit for purpose
		• This will involve:
		  ○ Meetings or workshops with stakeholders to define, review or assess requirements
		  ○ Assisting the business analyst to prepare requisite materials for meetings or workshops
		  ○ Note, then follow up completion of actions with stakeholders
		  ○ Organise workshops and discussion sessions as required
		• Create appropriate materials that enhance discussions or open discussions with stakeholders

	Required Skills	Sound foundation in mechanical systems or IT systems understanding

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_04	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jul/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • Management Information System related **Other Preference:** • Computer Science related
	Project Name	Digital Transformation - Customer Experience Transformation
	Business Objective(s)	• Enabling the delivery best in class Customer Experience to CLP customers by leveraging latest cloud computing technologies • Support technology study and conduct digital solution assessment to improve customer experience • Understand and support proof of concept on modern digital channels as part of customer experience transformation • Contribute to Enterprise Architecture by supporting process automation
	Project Description	• Get input from Project Manager and conduct market research on customer related digital technologies (cloud, AI, Customer Data Platform, Marketing platform) • Conduct meetings with external cloud vendors to understand their product on customer landscape (Azure, Ali Clouds etc) to derive the solution options for the requirements • Support Project Manager to analyze multiple technology tools and prepare presentation for the key stakeholders • Work closely with Data, Integration and Solution Architects on the solutions using latest technologies • Work with the Enterprise Architecture team to support process automation, Architecture Strategy and Planning
	Required Skills	• Cloud Computing Concepts with types of Cloud of Computing • Hands on experience on any Cloud Service Providers (Azure, Ali, AWS) • Attitude --> Passionate towards technology and show excitement to learn new technologies • Communication --> May need to coordinate with multiple stakeholders • Analytical and Problem Solving Skills

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_05	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to May/2024
	Preferred Discipline	**First Preference:** • Data Science & Business Statistics **Other Preference:** • Computer Science
	Project Name	Data Transformation/Analytics & Data Visulaization
	Business Objective(s)	Transforming CLPs data-driven culture and promotion and adoption of data services: • Business Intelligence and Visualisations • Data literacy and trainings • Communications • Data and analytics community maintenance and engagement
	Project Description	Assisting the projects with data analytics, data integration and project management tasks. They will receive training on Power BI, SQL, Python, CLP's Azure Data Analytics Platform and Databricks
	Required Skills	• Databases • Programming and Scripting (Python / SQL) • Cloud

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_06	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • Information Security / Computer Science **Other Preference:** • Mechanical / Electrical Engineering
	Project Name	Operational Technology / Industrial Control Systems - Security Strengthening
	Business Objective(s)	• At CLP, our business commitment is to ensure continuous supply of electricity to Hong Kong. As such, it is critical for us to protect our operational technology (OT) systems, which is control the operations for the generating, transmitting and distributing power. • For recent years, many cases of power plants around the world had been attacked by different types of Cyber threats which had caused, not only money lost to the company but also affecting the normal life on many people. As OT/ICS technology plays an important role for our plants operation and control, it is very important for CLP to protect our assets by strengthen our knowledge of Cyber Security in this field in order to enhance, prevent and avoid any potential risks from Cyber threats.
	Project Description	• OT/ICS Cyber Security is becoming one of the hottest topics in the industrial operations sector due to many recent Cyber-attack as utility companies are usually being targeted. Many companies are looking for ways / methodologies to enhance and prevent systems that are used to monitor and control industrial processes against different types of Cyber Threats which may cause substantial amount of damage lost to company....3 key objectives of OT/ICS Cyber Security which includes: • Identify and Detect - Discover and eliminate vulnerabilities, mis-configurations,. unsecured connections and unauthorized remote access by enforcing access policies and recording sessions • Protect - System monitoring and detect malicious activity and high-risk changes and prevent any future attacks • Respond - Able to resolve any new arises issues in fast pace to minimize any further damages and risks
	Required Skills	Technology related • Proficient in Microsoft Office 365 • Basic understanding of Cyber-attack scenarios and protection Non-technology related

		- Fast learner with "can-do" Attitude - Proficient in English. Chinese is optional but preferred - Ability to communicate and document technical details in a concise, understandable manner

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_07	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • Information Security / Computer Science **Other Preference:** • Engineering
	Project Name	Cyber Technology and Incident Response Optimisation
	Business Objective(s)	At CLP, our business commitment is to ensure continuous supply of electricity to public. As such, it is critical to hold a strong cyber defense, and handle cyber incident professionally.
	Project Description	• As an intern in Cyber Security Team, you will assist Project Owner to: • Deploy new technologies to detect, prevent and handle cyber-attack • Practice cyber incident response process to evaluate the project value • Study the technical features of the existing security systems • Automate cyber operation processes • Conduct data analytics on information from multiple security systems • Establish new operational process for the new system, and integrate into the existing CLP's cyber ecosystem • Enhance vulnerability management program • Ability to communicate and document technical details in a concise, understandable manner
	Required Skills	Technology related • Proficient in Microsoft Office 365 • Basic understanding of Cyber-attack scenarios and protection Non-technology related • Fast learner with "can-do" Attitude • Proficient in English. Chinese is optional but preferred • Ability to communicate and document technical details in a concise, understandable manner

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_08	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jul/2024
	Preferred Discipline	**First Preference:** • Computer Science **Other Preference:** • Energy engineering
	Project Name	CTI Program-Internal Intelligence
	Business Objective(s)	As a Cyber Threat Intelligence (CTI) analyst, you will be presented with an opportunity to research and report on emerging threats against CLP Holdings and to strategically shape and guide the approach that the company takes to protect its people and assets.The position offers an opportunity to inform leadership with creative, unique approaches to detect and defeat complex threats for a global firm facing complex, sophisticated cyber actors. Because of CLP's global presence and size, new challenges are identified and solved every day. The CTI analyst must be able to work independently to identify non-traditional solutions to complex threats in an evolving cyber landscape.
	Project Description	Major Duties: • Independent collection, analysis, and production of finished cyber threat intelligence in support of regional IT departments, Group Cyber Operations team, and other lines of business • Maintain awareness of the global threat landscape and review complex, technical sensor data, enrich it with contextual information and produce intelligence reporting for stakeholder consumption • Regularly collaborate with the CLP Group Security Cyber Operations Team, regional IT team and partners to respond to incidents and aid in investigations and to maximise the value of CTI • Working with various intelligence sources and providers to extract, filter, and enrich cyber Intelligence reporting and provide actionable material • Communicate and collaborate with other cyber threat researchers • Understanding and respecting the geopolitical factors across regions
	Required Skills	Requirements: • Strong technical written skills with the ability to assimilate complex information and convey it simply and succinctly • Attention to detail, analysis experience and ability to review and assess logs for anomalous activity, seeking out threats • Positive attitude, ability to manage time to adhere to deadlines and seeking to improve others while continuously learning and identifying

		ways to strengthen the collection and analysis systems to advance CLP's Cyber Threat Intelligence Program • Demonstrate an international mindse

CLP Internship Programme 2023

Project Outline - Information Technology

Project Code	IT_SAND_09	
Project Detail	**Internship Category**	Sandwich
	Internship Period	Jun/2023 to Jun/2024
	Preferred Discipline	**First Preference:** • COMPUTER SCIENCE **Other Preference:** • BUSINESS
	Project Name	CX Transformation
	Business Objective(s)	To deliver horizon 1 of the CX roadmap, build post login capability into Adobe

	Project Description	• The intern will work with the Business Analyst to analyse requirements, apply analytic thinking to determine if requirements are viable, appropriate or fit for purpose.
		• This will involve
		    ○ meetings or workshops with stakeholders to define, review or assess requirements.
		    ○ assisting the Business Analyst to prepare requisite materials for meetings or workshops
		    ○ note, then follow up completion of actions with stakeholders
		    ○ organise workshops and discussion sessions as required
		• Create appropriate materials that enhance discussions or open discussions with stakeholders

	Required Skills	Background in web, mobile app applications or technologies