2019 Intern Project Overview

No.	Dept.	Project Name	Project Scope	# ppl	Requested Major	Language Skill
1	Group FM	**VH Facility Weakness Evaluation and Enhancement**	Thoroughly inspect current design of facility systems to identify possible systematic weakness of power supply systems, water supply systems, air compressor systems, and duct ventilation systems in VH, VH2. And propose respective solutions to fix the weakness.	1	Electrical engineering required, specialty in Industrial electricity preferred	English: Intermediate or above
2	Bottom Factory	**TPM Reliability Study on Foaming Machine**	1. Creat a real platform to collect and analyze failure data of foaming machine(IP, DP foaming machine) . 2. Highlight top 10 failure root causes analysis and propose solutions 3. Recommedation and comparision of existing maintenance plan after finding top 10 failures above. 4. Map out an optimal warehousing paln for fomaing machine spare parts	1	Mechanical Engineering/Industrial Engineering	English: Intermediate or above
7	PCC_CDC	**Midsole Stabilization Study**	**Study on Stabilization Oven temperature and the influence on IP Expansion Rate and product:** Investigate factors influencing the temperature in Stabilization Oven in the development stage and mass production, and find out possible reasons causing the different production statistics and results in CDC and Bottom Factory through QA reports, analysis, and experiments.	1	Science related	English: Intermediate or above Mandarin: a Plus
8	Group TA	**Group Talent Acquisition Website**	To create a website to enhance the efficiency of group talent acquisition process. 1. Understand the current process for expat recruitment & onboarding. 2. Understand the expectation and requirements on recruitment from our internal stakeholders. 3. Consolidate current resources, materials, process management related to talent acquisition process into a website design. 4. Create a website to facilitate current talent acquisition process.	2	Computer science, marketing, graphic design, digital arts, HR	English: Intermediate or above
10	MM Auto	**Real Time Shop Floor Control Infrastructure Establishment**	1. Digitization and Re-Engineering of MC current shop floor control process flow 2. Participation in MVS deployment and test	1	Industrial Engineering, Computer Science	English: Intermediate or above

2018 Internship Project Scope Statement

Facility: VH & VH2

Project Name	**VH Facility Weakness Evaluation and Enhancement**	**Dept**	FM (Faciliyt Management)	**Issued Date**	03-Dec-18
Project Background	On Aug 15th, 2018, a small accident of natural gas valve incorrect operation has tripped six generators of the power plant and caused national wide blackout in Taiwan for several hours. In Chingluh, we are facing similar risk of possible production stoppage caused from the malfunction of a facility part. It is thus critical to identify the system weakness and provide corresponding solutions to prevent further possible damages.				
Objectives	Prevent unexpected massive damage happened in production through thorough inspection of current design of facility system and providing solutions to fix any possible weakness in the system.				
Reference Documents					

Project Description

Scope	Thoroughly inspect current design of facility systems to identify possible systematic weakness of power supply systems, water supply systems, air compressor systems, and duct ventilation systems in VH, VH2. And propose respective solutions to fix the weakness.		
Deliverables	**Duration** (weeks)	**Key Tasks/Activities**	**Key Deliverable**
	4	Inspect the weakness of VH and VH2 facilities	VH and VH2 facility inspection report
	4	Propose solutions to enhance the robustness of VH and VH2 facilities	VH and VH2 facility enhancement proposal
Risk Assessment	N/A		
Project Stakeholders	FM team, EM team, SB team		
Supervisor	David Wang		
Team Member	FM team, EM team, SB team, construction, production		
Benefits for Interns	1. Understanding about facility system 2. To apply theory with the application/implemented in field		

Qualifications of the Role

Source	☑ **Local** ☑ **Expat**	**Request # of people**	1
Education	☐ **Vocational College/University** ☑ **Comprehensive University** ☑ **Master Degree and/or above**		
Major	Electrical engineering required, specialty in Industrial electricity preferred	**Language Skill (English)**	☑ **Intermediate** ☑ **Advanced**
Competency/ Skill Required	1. Data and system analysis skill 2. Project management backgroud is a plus.		
Other Requirements	Expat candidates need to have more than 3 years work experience.		
*** Acronym Reference**			

2018 Internship Project Scope Statement

Facility: VH

Project Name	TPM Reliability Study on Foaming Machine	**Dept**	Bottom Factory	**Issued Date**	28-Nov-18
Project Background	Equipment reliability and mechanical integrity management is critical to shorten the downtime in maintenance and to maximize productivity in a plant. Hence, a total solution to optimize replacement frequency and the shelf life of machinery critical parts would be very important. Through results obtained from system diagnosis, we hope to create a standardized framework for preventive maintenance plan and eventually extend equipment operability, lower spare part cost, reduce failure rate significantly, and achieve other high reliability realms.				
Objectives	1. Achieve the optimal goal of zero failure in TPM activities by applying MP analysis (Maintenance Prevention) to collect and sort out related failures. 2. Increase OEE to reduce manufacturing losses such as: downtime loss, repair and commissioning losses, machine loss, deceleration loss, defective products in the restartup process, and material loss.				
References	1. Machine operating manual and mechanical drawings 2. Daily maintenance record and plan 3. Stock lists of Spare part				
Project Description					
Scope	1. Creat a real platform to collect and analyze failure data of foaming machine(IP, DP foaming machine) . 2. Highlight top 10 failure root causes analysis and propose solutions 3. Recommedation and comparision of existing maintenance plan after finding top 10 failures above. 4. Map out an optimal warehousing paln for fomaing machine spare parts				
Deliverables	**Duration** (week)	**Key Tasks/Activities**		**Key Deliverable**	
	2	1. Study foaming machine operating manual. 2. Collect and analyze failure data		Creat a data collection platform	
	2	1. Identify the root cuase from failure result diagnosis. 2. propose possible solutions.		Root causes analysis and proposed solutions	
	2	Create a standardized framework for preventive maintenance plan		Recommendation/ Implementation Plan	
	2	Comparison of before and after the new plan implemented.		Comparison analysis data to show improvement	
Risk Assessment	none				
Project Stakeholders	Chemical Bottom IP、DP & EM Team				
Supervisor	TPM Specialist - Steven Hsu				
Team Member	EM Team, OE Team				
Benefits for Interns	1. Understanding of mechanical structure and maintenance plan. 2. To apply theory to the application/implementation on site in a chemical plant.				
Qualifications of the Role					
Source	☑ **Local** ☑ **Expat**		**Request # of people**	1	

Education	☐ **Vocational College/University** ☑ **Comprehensive University** ☑ **Master Degree and/or above**		
Major	Mechanical Engineering/Industrial Engineering	**Language Skill (English)**	☑ **Intermediate** ☑ **Advanced**
Competency/ Skill Required	Familiar with excel or VBA language, microsoft access data base required, basic concept of TPM will be plus		
Other Requirements	Expat candidates need to have more than 3 years work experience.		
*** Acronym Reference**	MP (**M**aintenance **P**revention)、TPM (Total Productive Maintenance)、OEE(Overall Equipment Effectiveness)		

2018 Internship Project Scope Statement

Facility: Group PCC

Project Name	Midsole Stabilization Study	**Dept**	Chemical Development Center	**Issued Date**	24-Jan-19

Project Background	The bottom formula, after being developed and trial produced in CDC (Chemical Development Center), will be produced in the mass production of Bottom Factory. However, we have experienced product difference in two production sites. Some possible factors which might cause the difference are listed below. 1. Machinery capability 2. Operational Technology 3. Processing conditions 4. Temperature variation in Stabilization Oven Among the 4 factors, the current project will analyze the influence of the no. 4 factor through experiments on different machines in different production site, and find out the possible root causes which contributed to the product differences between CDC and Bottom Factory within NIKE STD.
Objectives	Study on Stabilization Oven temperature and the influence on IP Expansion Rate and product: Become a Master of Temperature in Stabilization Oven by investigating and analyzing temperatures in areas of different machines in different sites under different combination of factors, and eventually find out the root causes and solutions to maintain consistent production setting and reduce product differences between CDC and Bottom Factory.
References	

Project Description

Scope	Investigate factors influencing the temperature in Stabilization Oven in the development stage and mass production, and find out possible reasons causing the different production statistics and results in CDC and Bottom Factory through QA reports, analysis, and experiments.

Deliverables

Duration (week)	**Key Tasks/Activities**	**Key Deliverable**
2	Learn Nike STD and the complete production process of IP.	General understanding of IP production process and Nike STD
5	Research, invesitgate, and analyze all factors affecting temparatures in Stabilization Oven and the expansion rate of Phylon injection, and possibly propose solutions if any.	A detail analysis and solution report on product differneces in CDC and Bottom Factory
1	Create a presentation to share the results and suggestiong	presentation decks

Risk Assessment	Ensure that all operational conditions follow Nike STD and guidelines on safety operation instructed by SMP. Don't do any operation without machinery license issued by SMP.
Project Stakeholders	CDC / PCC Chemical Engineeering / Bottom Factory / QA / TPM
Supervisor	Ryan Huang
Team Member	CDC
Benefits for Interns	Learn the development, production, and quality assurance process of shoes bottom (IP) manufacturing.

Qualifications of the Role			
Source	☑ **Local** ☑ **Expat**	**Request # of people**	1
Education	☑ **Vocational College/University** ☑ **Comprehensive University** ☐ **Master Degree and/or above**		
Major	Science related	**Language Skill (English)**	☐ **Intermediate** ☑ **Advanced**
Competency/ Skill Required	Chemical / data analysis knowledge, and Chinese communication capability would be a big plus.		
Other Requirements	Microsoft(excel, ppt, words, visio)		
*** Acronym Reference**	ER: Expension Rate; IP: Injection Phylon; CDC: Chemical Development Center; NIKE STD: NIKE Standards; SMP: Safety Management Process		

2019 Intern Project Statement

Facility: Group in VH

Project Name	Group Talent Acquisition Website	**Dept**	HR Group TA	**Issued Date**	07-Feb-18
Project Background	To enhance current talent acquisition process, we need a Group Talent Acquisition Website to consolidate all resources, materials, and process management related to recruitment and onboarding for more efficient and effective talent acquisition.				
Objectives	To create a website to enhance the efficiency of group talent acquisition process.				
References	Check with both Group TA, Factory TA and JV TA team about the related materials if any.				
Project Description					
Scope	1. Understand the current process for expat recruitment & onboarding. 2. Understand the expectation and requirements on recruitment from our internal stakeholders. 3. Consolidate current resources, materials, process management related to talent acquisition process into a website design. 4. Create a website to facilitate current talent acquisition process.				

Deliverables	**Duration** (week)	**Key Tasks/Activities**	**Key Deliverable**
	2	To learn current talent acquisition process and requirement from Group TA and internal stakeholders, and collect related resources, materials, and process.	Documentation of talent acquisition related materials, resources, and process.
	2	Consolidate the collected information into a website, and come up with the design of website structure, style, and contents.	Website structure, style, and contents
	4	Implement the design to create Group Talent Acquisition Website.	Group Talent Acquisition Website

Risk Assessment	Understand the copyright of portrait between the portrait right and the copy right of portrait work such as cited photo, materials to avoid the intellectual leakage.		
Project Stakeholders	Group TA, HRBP, expat employees		
Supervisor	Joanne Lee		
Team Member	Group TA team and BP team		
Benefits for Interns	To apply theory into reality to develop standard on-boarding policy ad process with paperless for Group TA & factory TA team as well as the stakeholders.		
Qualifications of the Role			
Source	☐ **Local** ☐ **Expat**	**Request # of people**	2
Education	☐ **Vocational College/University** ☐ **Comprehensive University** ☐ **Master Degree and/or above**		
Major	Computer science, marketing, graphic design, digital arts, HR	**Language Skill (English)**	☐ **Intermediate** ☐ **Advanced**
Competency/ Skill Required	Website design skills, HRM/HRD knowledge, communication skills (presentation of ideas, presentation in English), project management, co-operation, responsible, initiative		
Other Requirements			
*** Acronym Reference**			

2019 Intern Project Statement

Facility: VH

Project Name	Real Time Shop Floor Control Infrastructure Establishment	**Dept**	MM Automation	**Issued Date**	29-Dec-18
Project Background	With MVS platform now ready to be deployed in MC operations to monitor real time equipment status and performance, we need to go one step further to build an infrastructure to monitor the production performance in realtime, which is the Real Time Shop Floor Control System to keep track of Work Order Execution, WIP, DTs, and Maintenance Support to realize automation control in production. In this project, we aim to re-engineer current MC process flow to accelerate integration of MC digitization and new technologies, in hope that the learning will at the same time help us shape the demand of the MES (Manufacturing Execution System) we need in the near future.				
Objectives	1. Re-engineer current MC shop floor control process flow, and map out future demand/roadmap of MES. 2. Work with inhouse engineer team to digitize with MVS platform, and to create a Real Time shop floor control infrastructure system for MC's production lines.				
References	NA				
Project Description					
Scope	1. Digitization and Re-Engineering of MC current shop floor control process flow 2. Participation in MVS deployment and test				
Deliverables	**Duration** (Week)	**Key Tasks/Activities**	**Key Deliverable**		
	1	Training: footwear manufacturing processes, MVS platform, MC MVS Production Control System	MC production flow analysis report		
	6	MC MVS deployment and test support	MVS deployment and test report		
	1	Prepare final project report	Final project report and sharing presentation		
Risk Assessment	NA				
Project Stakeholders	MM AUTO & MC				
Supervisor	Donald				
Team Member	MM Automation team & MC				
Benefits for Interns	Learn the process to analyze current manufacturing practice, manufacturing visibility focus & mapping of digital factory. Learn C# programming and manufacturing system development skills.				
Qualifications of the Role					
Source	☑ **Local** ☐ **Expat**	**Request # of people**	1		
Education	☑ **Vocational College/University** ☑ **Comprehensive University** ☑ **Master Degree and/or above**				
Major	Computer Science	**Language Skill (English)**	☑ **Intermediate** ☑ **Advanced**		
Competency/ Skill Required	Basic programming capability in C# is preferred. Programming capability in network and/or SQL database experience is a plus.				
Other Requirements					
*** Acronym Reference**	MC: Modernization Center; MVS: Manufacturing Visibility System; MES: Manufacturing Execution System; WIP: Work In Process, DTs: Down Times; SA: System Analysis				