THE SPMS

Co-Operative Education Programme

A SKILLSFUTURE WORK-STUDY DEGREE PROGRAMME

Speaker
SPMS AC(Acad),
Dr Ku Cheng Yeaw

Date and Time
29 Oct, Thursday
12.30pm to 1.30pm

Venue
Zoom Briefing
SPMS CEP Briefing

29 Oct 2020
by Dr Ku Cheng Yeaw,
Associate Chair (Academic), SPMS
Overview

• What is CEP
• Partnering Companies
• Sharing by Students
• Structure & Application
What is CEP?

• A Skillfuture Work-Study Degree Programme (WSDP)
Four new SkillsFuture Work-Study programmes launched, with more than 140 places over the next 2 years
<table>
<thead>
<tr>
<th>NTU</th>
<th>Bachelor of Business (Business Analytics)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Double Degree Programme in Accountancy and Business (Business Analytics)</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Business - Banking &amp; Finance (Wealth Management Track)</td>
</tr>
<tr>
<td></td>
<td>Double Degree Programme in Accountancy and Business – Banking &amp; Finance (Wealth Management Track)</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Engineering (Materials Engineering)</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Engineering (Mechanical Engineering) (Design Stream)</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Science (Maritime Studies)</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Science in Chemistry and Biological Chemistry</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Science in Mathematical Sciences</td>
</tr>
<tr>
<td></td>
<td>Bachelor of Science in Physics and Applied Physics</td>
</tr>
</tbody>
</table>
SPMS CEP AY2019

List of participating companies

Genome Institute of Singapore (GIS)  PwC
GIC  PSA Corporation
Ikeda Group  Shidmazu
International Flavors & Fragrances  Singapore Prison Service
ISDN Software Business  Sumitomo Chemical Singapore
Lubrizol  Sumitomo Seika Singapore
Pensees  Symrise Asia Pacific
A snapshot of projects

PSA (Data Science/Optimization/Machine Learning)

Predict operational performance based on customer behaviour (ship arrivals and throughput volume), terminal planning features and resource deployment levels (predictive analytics using regression and machine learning models)
A snapshot of projects

<table>
<thead>
<tr>
<th>Name of Organisation</th>
<th>Field</th>
<th>Project Title/Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubrizol</td>
<td>Speciality Chemicals / Fine Chemicals, Polymers</td>
<td>Polymer design for industrial application</td>
</tr>
<tr>
<td>Shimadzu (Asia Pacific) Pte. Ltd</td>
<td>Analytical solutions, scientific equipment, testing machines, and medical equipment</td>
<td>Quantitation Assay of intact proteins by mass spectrometry</td>
</tr>
</tbody>
</table>
Support provided by School

- **Co-op Day** for networking between students and companies' representatives
- Career guidance (interview practice session, resume writing etc.) from CAO Career Coach
- Mentorship from SPMS professors during Work Term
What the CEP students like best of learning experience during work term?

- Working with a definite work schedule and interaction with the team
- The trying of different analytical machines
- Get familiar to AI technology and know how application of maths & programming knowledge in workplace
- More exposure to industrial formulation
- Guidance by organization given during work term
Let’s hear from them...

- Speaker 1: Dawnn from CHEM
- Speaker 2: Sun Chang from MAS
Benefit of joining CEP

- Workplace job training by Company
- Personal mentorship by SPMS Professors
- Enhance your job-readiness upon graduation
- Stand a good chance to be offered career opportunities with the companies upon graduation
CEP Structure

Year 1 Semesters 1 & 2

Work Term 1 (10 weeks)

Year 2 Semesters 1 & 2

Technical & Professional Development

Year 3 Semesters 1

Work Term 2 (10 weeks)

Year 4 Semesters 1 & 2

Work Term 3 (30 weeks)
CEP AU Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>GER UE</th>
<th>MPE</th>
<th>Co-op AU</th>
<th>Total AU</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM</td>
<td></td>
<td></td>
<td>10AU</td>
<td>15AU</td>
</tr>
<tr>
<td>CHEM Co-op</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td></td>
<td></td>
<td>8AU</td>
<td>15AU</td>
</tr>
<tr>
<td>MATH Co-op</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY</td>
<td></td>
<td></td>
<td>10AU</td>
<td>15AU</td>
</tr>
<tr>
<td>PHY Co-op</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Eligibility to apply CEP

- Students from either:
  - Bsc (Hons) in Chemistry and Biological Chemistry;
  - Bsc (Hons) in Mathematical Sciences;
  - Bsc (Hons) in Physics / Applied Physics
Eligibility to apply CEP

• For those under these scholarships programme, you are not eligible to apply:
  - CNYang Programme
  - University Scholar Programme

For other scholarship holders, please write in to check the eligibility with us.
Application Window

• Beginning of AY20/21 Semester 2 (mid-Jan to early Feb 2021)

E-mail announcement

Start to get ready your resume and personal statement (500 words) from Dec!
Application Procedure

Mid-Jan to Feb
Submit your resume & personal statement

Feb to Apr
Shortlisted candidates will be invited for interviews

Mid-May
Start CEP!

Process subjected to changes, depending on organization or project requirement.
Point of Contact

• Regarding the CEP structure, AU requirement etc. - spms_coop@ntu.edu.sg

• Guide for writing resume and personal statement – CAO Career Coach, Mr. Anthony Mok (anthony.mok@ntu.edu.sg)

• Regarding WSDP - wsdp@ntu.edu.sg
Q & A Session
Thank you!