STEM Internship Scheme 2023/24
(**CANNOT** use this internship to fulfil WIE requirements)

Internship Information

Department:	Industrial and Systems Engineering (ISE)
Eligible Programme:	1. BEng (Hons) in Industrial and Systems Engineering OR
	2. BEng (Hons) in Product Engineering with Marketing OR
	3. BSc (Hons) in Logistics Engineering with Management OR
	4. BSc (Hons) in Enterprise Engineering with Management OR
	5. BEng (Hons) Scheme in Product and Industrial Engineering OR
	6. BSc (Hons) Scheme in Logistics and Enterprise Engineering
Project Title:	Value Creation through ChatGPT – Opportunities and Challenges
Internship Title:	Intern (full-time)

Internship Period: from _____ 01/06/2023 _____ to _____ 29/07/2023 _____
DD/MM/YYYY   DD/MM/YYYY

Internship Location:	On Campus
Job Descriptions:	1. Learn and Use Computer Assisted Qualitative Data Analysis Software (CAQDAS) ATLAS.ti to develop the figures and graphs of correlation of articles on ChatGPT
	2. Perform a review of articles on ChatGPT using ATLAS.ti
	3. Analyze the articles and look for key themes of interest
	4. Prepare a report of 3500-4000 words

Eligible Student:
1. **Local[1] or Non-local[2] undergraduates** enrolling on one of above **full-time STEM programmes** funded by the University Grants Committee (UGC);
2. Active students (final-year students are eligible as long as the internship commences BEFORE the expiry of student status as shown on their student ID card and/or Academic Registry record); and
3. **Legally employable** in Hong Kong

Key Points of the Scheme:
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3. Students are required to submit the following post-internship documents to ISE **within 2 weeks** upon the internship end date.
   - Assessment/Evaluation Form (Annex E);
   - Timesheet (Form P3), with signature of work supervisor;
   - Copy of Salary Statement / Salary Transaction Record;
   - Learning Journal and photos (see guidelines); and
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4. Students interns should **complete the entire internship** as specified in the employment contract. Allowance will **NOT** be reimbursed to students who fail to achieve 80% attendance rate or cannot complete the internship as planned.
5. Only students who have successfully enrolled on the Scheme, completed the internship and submitted post-internship documents (stated in point 3 above) are eligible to receive the allowance.
6. Please refer to the attached "**Guidelines for Students**" for detailed requirements and information.

Honorarium per month:	HK$11,190
Application Deadline:	17 May 2023

For interested students, please submit your C.V. to **Dr. Sumbal, Muhammad Saleem** by email saleemkhan.sumbal@polyu.edu.hk on/before the deadline.

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	6. BSc (Hons) Scheme in Logistics and Enterprise Engineering
Project Title:	Blockchain for Cold Chain Freight Management
Internship Title:	Intern (full-time)

Internship Period: from   26/06/2023   to   23/08/2023
                                  DD/MM/YYYY   DD/MM/YYYY

Internship Location:	On Campus

Job Descriptions:

1. To study the blockchain technology for decentralized autonomous organizations
2. To investigate the co-loading and lateral sharing strategies
3. To build the machine learning/operations research model to facilitate lateral sharing
4. To conduct formal analysis and simulation experiments

Eligible Student:

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Honorarium per month:	HK$11,190
Application Deadline:	17 May 2023

For interested students, please submit your C.V. to **Dr. Carman Lee** by email (ckm.lee@polyu.edu.hk) and **Dr. Paul Tsang** (yungpo.tsang@polyu.edu.hk) on/before the deadline.

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	5. BEng (Hons) Scheme in Product and Industrial Engineering OR
	6. BSc (Hons) Scheme in Logistics and Enterprise Engineering OR
Project Title:	Digital Twins for the Low Volume High Mix (LVHM) Production
Internship Title:	Intern (full-time)
Internship Period:	from 26/06/2023 to 23/08/2023
	DD/MM/YYYY DD/MM/YYYY
Internship Location:	On Campus

Job Descriptions:

1. To study the LVHM production for mass personalization
2. To investigate the production scheduling and job allocation problems
3. To build the simulation models for the LVHM production environment
4. To conduct formal analysis and simulation experiments

Eligible Student:

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Application Deadline:	17 May 2023

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	6. BSc (Hons) Scheme in Logistics and Enterprise Engineering
Project Title:	Industrial Metaverse
Internship Title:	Intern (full-time)

Internship Period: from _____20/06/2023_____ to _____17/08/2023_____
                               DD/MM/YYYY   DD/MM/YYYY

Internship Location:	On Campus
Job Descriptions:	1. Build and Implement Virtual Scenes/Objects in the Metaverse.

2. Establish user interaction components in an industrial application scenario, and the candidate should understand UX design process.
3. The candidate should be familiar with Unity, C#, OOP and the creation of 3D assets (meshes, materials).
4. Chance of work continuously with the research group after the internship period.

Eligible Student:
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	6. BSc (Hons) Scheme in Logistics and Enterprise Engineering
Project Title:	Development of AI algorithm for industrial applications
Internship Title:	Intern (full-time)

Internship Period:	from	01/06/2023	to	29/07/2023
		DD/MM/YYYY		DD/MM/YYYY

Internship Location:	On Campus
Job Descriptions:	1. Data collection and labelling
	2. Development of machine learning and deep learning algorithms
	3. Computer programming
	4. Model training and testing

Eligible Student:	1. **Local[1] or Non-local[2] undergraduates** enrolling on one of above **full-time STEM programmes** funded by the University Grants Committee (UGC);
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Project Title:	Development of Virtual Reality Applications for Industry
Internship Title:	Intern (full-time)
Internship Period:	from 01/06/2023 (DD/MM/YYYY) to 29/07/2023 (DD/MM/YYYY)
Internship Location:	On Campus

Job Descriptions:
1. Artistic Design
2. 3D Modelling and rendering
3. Programming for virtual reality
4. Research and data collection
5. Data analysis

Eligible Student:
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