

## Subject Description Form

<b>Subject Code</b>	ABCT5110
<b>Subject Title</b>	Industrial Attachment
<b>Credit Value</b>	6
<b>Level</b>	5
<b>Pre-requisite</b>	N/A
<b>Objectives</b>	<p>This subject provides opportunities for students:</p> <ol style="list-style-type: none"> <li>1. To expose students to the real-world environment of biotech companies in Hong Kong or China.</li> <li>2. To provide hands-on experience and insights into the operations, culture, and strategies of tech companies.</li> <li>3. To enable students to apply academic knowledge to practical situations and challenges faced by tech companies.</li> <li>4. To foster networking opportunities and potential future collaborations between students and biotech companies.</li> <li>5. To instill an understanding of current technological advancements and innovations taking place in biotech companies.</li> </ol>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a) Demonstrate a clear understanding of the company culture, operations, and technology trends within a biotech company.</li> <li>b) Effectively apply academic knowledge to solve real-world problems faced by companies.</li> <li>c) Establish professional connections and networks with industry experts and peers in the biotech sector.</li> <li>d) Reflect on personal and professional growth achieved during the attachment period.</li> <li>e) Present key takeaways, experiences, and learnings from the company attachment in a comprehensive report or presentation.</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	<p><b>1. Technical Competence:</b> Understanding and implementing core technical skills in a real-world biotech environment.</p> <ul style="list-style-type: none"> <li>- Engage in hands-on tasks and projects to apply academic knowledge in actual work settings within the biotech companies.</li> <li>- Participate in technology-driven tasks, understanding the nuances of tech products and platforms.</li> </ul>

	<ul style="list-style-type: none"> <li>- Adhere strictly to the Occupational Safety and Health (OSH) precautions while operating tech equipment and machinery.</li> <li>- Follow laboratory safety measurements and protocols, ensuring a secure environment for experimentation and testing.</li> </ul> <p><b>2. Interpersonal Competency:</b> Building and nurturing professional relationships in a biotech-driven environment.</p> <ul style="list-style-type: none"> <li>- Engage in clear and concise communication with tech teams, project managers, and other stakeholders.</li> <li>- Participate in meetings, brainstorming sessions, and project discussions, ensuring the effective conveyance of ideas and feedback.</li> <li>- Work harmoniously with professional teams within the company, understanding the dynamics of team projects.</li> <li>- Contribute constructively to team efforts, ensuring the success of collaborative projects.</li> </ul> <p><b>3. Life-long Learning:</b> Fostering a continuous learning mindset in the rapidly evolving biotech world.</p> <ul style="list-style-type: none"> <li>- Seek and treasure learning opportunities through keen observation, practice, and engagement in biotech environment.</li> <li>- Attend workshops, seminars, and training sessions to expand knowledge horizons.</li> <li>- Engage in regular reflection sessions to assess personal growth, challenges faced, and lessons learned during the attachment.</li> <li>- Utilize feedback for continuous improvement, ensuring better performance in subsequent tasks.</li> </ul> <p><b>4. Professional Development:</b> Upholding the highest standards of professionalism in the biotech industry.</p> <ul style="list-style-type: none"> <li>- Stay informed about the professional responsibilities attached to roles and tasks within companies.</li> <li>- Understand and respect the ethical considerations associated with tech projects.</li> <li>- Uphold and advocate for the standards of professional and personal conduct, ensuring a positive and ethical work environment.</li> <li>- Regularly update personal knowledge and skills to match the evolving tech standards of biotech companies.</li> </ul>
<p><b>Teaching/Learning Methodology</b></p>	<p>Company-based work experience in the Biotechnology Cluster of Hong Kong Science and Technology Park and other biotech companies located in China, report, presentation.</p>

	<ol style="list-style-type: none"> <li>1. Presentation will give a detail report on what the students have performed and achieved during the attachment and the student should clearly report to our staff via an individual presentation.</li> <li>2. Reflective journal will assess students' ability to review the company attachment experience in details.</li> <li>3. Performance assessment will assess students' professional attitude and working performance by mentors in the company.</li> </ol> <p>Students are required to:</p> <ol style="list-style-type: none"> <li>1. Work in a company in Hong Kong or in China to complete at least 400 placement hours in the entire attachment;</li> <li>2. record and review their performance in the reflective journal;</li> <li>3. be assessed the performance in each discipline by mentors in the company.</li> </ol>						
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	Specific assessment methods/tasks	Percentage weighting	Intended subject learning outcomes to be assessed				
			a	b	c	d	e
	1. Presentation	30%	✓		✓		✓
	2. Reflective journal	20%	✓	✓		✓	✓
	3. Performance assessment	50%	✓	✓	✓	✓	
Total	100%						
<b>Student Study Effort Expected</b>	Class contact:						
	▪ Attachment in company	400 Hrs.					
	Other student study effort:						
	▪ Self and guided study	20 Hrs.					
▪ Daily log and reflective report	20 Hrs.						

	Total student study effort	440 Hrs.
<b>Reading List and References</b>	<ol style="list-style-type: none"> <li>1. O'Neill, M., &amp; Hopkins, M. M. (Eds.). (2012). A biotech manager's handbook: A practical guide (Woodhead Publishing Series in Biomedicine; No. 9). Woodhead Publishing. ISBN : 1-908818-15-8</li> <li>2. Shimasaki, C. (2014). Biotechnology Entrepreneurship: Starting, Managing, and Leading Biotech Companies (1st ed.). Elsevier Science. ISBN: 9780124047471</li> </ol>	