BUILDING CAREER READINESS –
How Engineering students are connecting with industry

Careers Practitioners Seminar 2023
TODAY’S SESSION

• Welcome & introduction – Helen O’Keeffe, Senior Student Recruitment Coordinator
• Student perspectives – Austin, Brendan & Rashmika
• New Monash Smart Manufacturing Hub; what it will deliver and how students can benefit – Grace Diep, Student Industry Linkage Manager
• Questions
CONTINUOUS PROFESSIONAL DEVELOPMENT (CPD)

COMPULSORY FOR ALL ENGINEERING STUDENTS

• Professional practice requirement providing an opportunity to engage in engineering and business-related activities

• 420 hours required (12 weeks)

• 50% of the minimum hour requirement must come from Engineering related activities

• Students develop teamwork, leadership, communication and networking skills, as well as learn about ethical conduct and professional accountability

• The more CPD students do, the more employable they will be on graduation
Monash Industry Team Initiative (MITI)

• A team-based program that partners students with a leading industry host where they will be tasked with solving a business problem
• Multi-disciplinary group of Monash students that work on an industry problem and present results at the end
• Undertaken over the summer break, 10-12 weeks.
SUMMER RESEARCH PROGRAM (SRP)

• Students work on a research project under the supervision of a Monash University academic

• Gain skills that can be applied to future career or studies, and an insight into what a career in engineering research might look like

• 12 weeks over the summer break

• $500 per week scholarship
CO-OPERATIVE EDUCATION INTERNSHIP PROGRAM

- 3, 6, 9 or 12 month paid work placement
- Develop technical engineering, teamwork and communication skills
- Gain exposure to different industries, workstyles, technical problems and solutions
- Employability skills training is provided
- Students go through an application and interview process to secure a placement
- Dedicated faculty staff are available to help
30 TEAMS AND CLUBS

- Precious Plastics
- Young MedTech Innovators
- Uncrewed Aerial systems
- Brew Lab
- Solar Decathlon
- High Powered Rocketry
- Robogals
- Motorsport
- Nova Rover
- Human Power
- Forge
Austin
Bachelor of Engineering (Hons) / Bachelor of Biomedical Science
Monash Industry Team Initiative
Brendan
Bachelor of Engineering (Hons) / Bachelor of Biomedical Science
Summer Research Program
Rashmika
Bachelor of Chemical Engineering (Hons)/Bachelor of Pharmaceutical Science
Cooperative Education Internship
MONASH SMART MANUFACTURING HUB
ACCESS TO INNOVATE
YOUR ACCESS TO

Innovative Companies on Campus

Expertise (3,000 researchers)

Monash technology

Monash facilities

Industry Innovation Program Dedicated Student Area
ACCESS DIGITAL TWIN TECHNOLOGY

Digital Twin: Manufacturing

Digital Twin: Processing

Digital Twin: Infrastructure and Built Environment

Digital Twin: Enabler

Digital Twin: Visualisation Lab

- It can create a digital twin of a physical production line, equipment or processing.

- Student Team in development
Co-operative Education Placement Program (Co-op)

- 3, 6, 9 and 12 month paid internship opportunities
- Supported and Inclusive Process – Career Readiness
- Opportunities from different industries and companies

<table>
<thead>
<tr>
<th>Year</th>
<th>Internship Enrolments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>21</td>
</tr>
<tr>
<td>2019</td>
<td>30</td>
</tr>
<tr>
<td>2020</td>
<td>22</td>
</tr>
<tr>
<td>2021</td>
<td>56</td>
</tr>
<tr>
<td>2022</td>
<td>106</td>
</tr>
</tbody>
</table>
Employer Evaluation Highlights

- 92% would take a student again for another internship
- 97% would recommend the student to a future employer
- 97% said students were well prepared for their internship
- 99% wanted to take another student for a future internship
- 100% reported they were well supported by the Co-op team

98% of our Co-op Students are retained by their employer

'A well run program that achieved positive outcomes for HRL and the intern, good job!'
----- HRL Technologies

'This is a great program with two main dimensions - help students get critical real-world experience in the workforce prior to completion of their degree, as well as helping firms identifying potential graduate-level talent, which is important in our sector given there is a resource shortfall across the industry.'
----- SMEDTECH Ltd.

'As always, very pleased with the caliber of students.'
----- Mitsubishi Heavy Industries

'I like the structured approach and how Monash supports finding suitable students for the right fields / right drivers.'
----- Mott McDonald
INDUSTRY INNOVATION PROGRAM (IIP)

- Industry projects with an innovation focus
- Student Teams working with Industry on R&D and Innovative Concepts
- Guidance from Registered Engineer and Academic Supervisor
- 3, 6, 12 month projects – full time or part time options available
- Scholarships to be awarded to participating students from Industry
OUR INDUSTRY PARTNERS
ACCESS TO TALENT
ACCESS TO EXPERTISE
ACCESS TO FACILITIES
CONTACT US

Grace Diep
Student Industry Linkage Manager
Monash Smart Manufacturing Hub

Ph: 0430 542 795
Email: grace.diep@monash.edu
QUESTIONS?

More Information:

Monash Smart Manufacturing Hub

Professional Development Programs