

Design Research Internship:

How might we design a sustainability focused STEAM program for high school students?

Project Type	Research, Participatory Design, Workshop Creation/Facilitation, Stakeholder Engagement		
Project	Semester 2, 2022	Version	1.0
Project Manager	Justin Mitchell	Project Sponsor	Neil Carmona-Vickery

Project Objective:

To investigate how Monash Tech School (MTS) might design a sustainability focused educational STEAM program that encourages student agency and considers emerging trends, new developments in industry, and future needs.

The outcome of this project will be a body of research to guide program development, and inform capital expenditure.

Background:

[Monash Tech School](#) is a leader in the development of 1-2 day STEM programs for students in year 7-9.

We wish to continue iterating our program development process and invite undergraduate design students to expand on our prior work.

<https://www.monashtechschoo.vic.edu.au>

Vision:

Operating at the nexus of education and industry, Monash Tech School is creating a multi-day core program focused on sustainability. This program will focus on our need to go beyond sustainable to regenerative practices and will expose students to emerging technology. Successful programs consider: Emerging technologies, local industry, student experience, school demand, curriculum, MTS staff capability and appropriateness for delivery to diverse student groups.

MADA Interns will use their knowledge of human-centred and participatory design to produce a research outcome that informs MTS's approach to developing a new, sustainability focused program. This will include creating a series of internal staff workshops, conducting empirical research and engaging with external stakeholders.

Topics for investigation include but are not limited to:

- Energy
- Food
- Women and Girls
- Buildings and Cities
- Land use
- Transport
- Materials
- Economies

Developing programs is a costly effort both in terms of human resources and capital expenditure with results that impact over 2,000 of students over a number of years. Accordingly, this puts large responsibility on program developers. This project will provide a headstart to program developers in 2023.

Project Team	Stakeholders:
Justin Mitchell (Technology and Training Manager, Monash Tech School, MADA Industrial Design Alumni)	Monash Tech School. <ul style="list-style-type: none"> • Students and their families, Classroom Teachers,
3 x MADA Internship Undergraduate Students	Industry partners including: <ul style="list-style-type: none"> • Local Business • Small Medium Enterprises • Local and State Government

Deliverables:

This project will kickstart the development of a new program so will be focused on high level considerations. Deliverables will include:

- A series of workshops run internally with staff
- A list of recommended capital expenditure purchases (new technology, equipment etc.) in support of Supersustainability.
- A folio of research findings and gleaned insights.

To apply:

We encourage you to apply by reading the attached document and provide a brief reply with:

1. Short Statement of Interest (50–100 words)
2. 2–3 Page folio showing your proudest work.
3. Unofficial Transcript

Please send responses before June 1 to:

Justin Mitchell
justin.mitchell@monashtechschoo.vic.edu.au

Read more about [Monash Tech School](#) and the [Team](#).