



**TOORAK COLLEGE**  
Mount Eliza

# Immersive Learning in Action: Connecting Students with Tomorrow's Careers





Engaging young people in immersive learning experiences and real-world problem-solving is crucial for making learning meaningful and helping them make informed career choices. This approach provides insight into personal interests and aptitudes.

Collaboration between schools and industries is key to creating relevant learning opportunities. While educators excel at curriculum design, industry partners offer vital insights into the knowledge, skills, and thinking routines essential for the modern workforce. This partnership ensures that students not only gain core knowledge but are also prepared for the professional world.

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## PROGRAM OVERVIEW

This document outlines our Year 10 microcredential curriculum that integrates the work of IMRA, who focus on improving medical care through technology. This provides a compelling, real-world problem for students to investigate.

### OBJECTIVES & KEY POINTS

Connect students with industry leaders and expose them to new, emerging industries.

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Inspire career pathways, particularly in technology.

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Provide authentic learning experiences by allowing students to see and operate surgical robots and engage with cutting-edge material chemistry.

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The curriculum covers a broad range of subjects, including science, robotics, technology, and ethics, encouraging critical and creative thinking.

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The program includes in-school sessions plus a site visit, combining in-class theory with hands-on immersion.

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Students earn a digital badge to certify their participation.

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### DETAILED CURRICULUM OUTLINE

The curriculum is structured across several sessions to provide a comprehensive learning journey. The program begins with foundational in-class sessions where students explore the history of medicine and the evolution of medical technology, including surgical robotics. This is followed by a look into modern medicine and IMRA's role, with students analysing current challenges like human error in surgery. A key component is the onsite immersion where students tour a material chemistry lab and gain hands-on experience with surgical robots and simulators at IMRA.

The program concludes with reflection sessions for students to debrief on their experiences and research potential career pathways in science, technology, and medicine. Optional, in-depth practical investigations follow, with a dual focus. The Science Focus allows students to investigate hydrogels and their use in surgical training by designing and conducting their own experiments. Alternatively, the Robotic/Digital Technologies Focus challenges students to build and operate a functioning robotic arm to perform a mock "surgery" on a model, helping them understand the practical applications of robotics. This comprehensive approach ensures students gain both theoretical knowledge and practical skills aligned with modern industry needs.

## PARTNER WITH US TO INSPIRE THE NEXT GENERATION OF INNOVATORS.

To explore how you can be involved contact:  
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