

SUCCESS STORY



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EcMIUS is a Calgary-based medical technology company that is currently working on developing parts of extra-corporal life support (ECLS) technologies. WIL funding helped EcMIUS to hire students this summer to support the advancement of their cannulae. The students worked on the development of the fabrication process and new cannula designs as well as understanding plastisol formation and surface modification treatment for specific applications. Specifically, they were integrating simulation models that will enable understanding of process parameters with the development of prototypes.

Joshua Feddema, a Biomedical Engineering (MBE) student at the University of Calgary, pursued a position with EcMIUS because he “wanted to be part of a collaborative team working on advanced medical systems with a plethora of associated learning opportunities.” He was focused on developing medical grade cannulae through a dip coating process, which led him to investigate the material properties of the plastic fabrication material, study surface treatment for a biocompatibility coating, and quantify manufacturing parameters for this important medical tubing. He says he is inspired to “continue pushing into the medical technologies sector by opening a window to see what is possible. Through a tangible understanding of biomedical engineering, I feel more confident in the path ahead. The exciting parts of my time at EcMIUS are the incremental moments of discovery I have encountered as this developmental research has progressed.”

Joshua remains excited about his future in the life sciences industry: “Biomedical engineering is a beautiful intersection between the structured analytical cores of



Joshua Feddema

the engineering approach and an empathic drive to benefit the lives of others. The products and work of this field can save lives, which easily justifies the effort of the research and development. I am looking forward to a continued impact on field of biomedical engineering.”

Alice Guest, VP Operations at Ecmius, says, “we were very pleased to see how skilled and excited students were and that we were able to access and materialize this potential.” It sounds like more WIL experiences at Ecmius might be available in the future!

Contact jamie@bioalberta.com to learn how the WIL Voucher can benefit you.

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