UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING
Institute for Multidisciplinary Design & Innovation

MEng Multidisciplinary Project (MMP)

Overview

The University of Toronto MEng Multidisciplinary Project (MMP) offers UofT MEng students the opportunity to apply their knowledge and skills to address technical research challenges for practical engineering projects of a multidisciplinary nature. This course also aims to provide exposure of all internal/external clients (e.g. research centres/labs, companies and external partners, etc.) as well as faculty members on the capabilities and potential of the University of Toronto Institute for Multidisciplinary Design and Innovation (UT-IMDI) to perform multidisciplinary projects at the graduate level, to satisfy the client's business and research needs. UT-IMDI seeks to create an environment in which students of all Engineering disciplines collaborate to meet and address the specified needs of the client. UT-IMDI aids in the promotion and facilitation of these multidisciplinary projects.

Course Description and Operation

The MEng Multidisciplinary Project (MMP) is offered by the Faculty of Applied Science & Engineering at the University of Toronto.

MMPs are initially defined by the client and subsequently approved by UT-IMDI. MMPs are then sent to faculty Subject Matter Experts (SMEs) in participating departments and faculty supervisors are identified. Afterwards, MMPs are posted on UT-IMDI/disciplinary graduate programs website. Interested MEng students need to contact their respective graduate program director/MMP supervisor. After the completion of student matching for each MMP, and with the instruction and guidance from the supervisor; the multidisciplinary research team will actively collaborate and communicate amongst each other and client(s) to accomplish the project objectives. The amount of collaboration and contribution from each team member depends on the departmental requirements for a MEng projects, and is determined by the supervisors in advance. Therefore, each MEng student needs to understand the objectives/scope of the project and expectations to fulfill the requirements of his/her disciplinary MEng project.

MEng Multidisciplinary projects are provided/solicited by/from industry partners, research laboratories, faculty members, etc. for whom the project represents their practical research and/or business challenges. MEng students in the MMP project.

• Apply knowledge, skills and processes from several disciplines to conduct the research;

• Demonstrate engineering judgment as they integrate pertinent inter-multidisciplinary factors such as economic, health, safety, environmental, social;

• Incorporate teamwork, project management, and direct stakeholder and Client interaction in a multidisciplinary environment; and

• Disseminate contributions and outcome of the research through technical reports, publications, presentations, showcases, etc..