The Technological Leadership Institute Master of Science in Medical Device Innovation (MDI) prepares students to translate ideas into commercially successful products, while they gain knowledge of global industry trends essential to innovation and business growth.

The MDI program provides early and mid-career medical technology professionals with the knowledge and skills needed to be effective, ethical leaders. Students learn to anticipate, manage and overcome challenges they will face in the complex, competitive and highly-regulated medical technology industry.

**Degree Program Highlights**
- Cohort-based model
- Most classes meet 2 evenings each week
- Two program options to finish in 16 or 22 months

**Admission Prerequisites**
- Undergraduate degree (GPA 3.0 or higher)
- Relevant work experience
- Demonstrated leadership potential

A new MDI cohort begins each fall. TLI accepts applications and conducts interviews on a rolling basis. Space in the cohort (for 25-30 students) and financial assistance are limited. Therefore, candidates are encouraged to apply early.

**Driving Innovation in Medicine**
Now more than ever, the development and commercialization of new medical technologies depends on leaders at all levels of an organization who think critically, address complex technical and business challenges and create innovative solutions. MDI students are immersed in one of the nation’s largest medical device clusters and contribute to the development of technologies of the future.

**Learning Pace for All Lifestyles**
The MDI program has two options designed to accommodate the needs of a diverse group of working professionals. Students can choose the traditional option and graduate in only 16 months (4 semesters) or the extended 22-month option (5 semesters) for added flexibility and time.
“MDI is one of the best investments you can make for your career in the medical device field. I would recommend MDI to those already in this field as well as those interested in innovation and entrepreneurship.”

– Meera Bavishi, 2019 graduate

Our Faculty
MDI faculty are medical technology innovators and industry leaders from companies such as 3M, Boston Scientific, Baxter International, Medtronic, RxFunction, Stemonix and elsewhere. They are active members of the Minnesota medical technology ecosystem. Their cumulative knowledge and experience prepare our students for intrapreneurship and entrepreneurship at companies both large and small.

Career-Building Curriculum
The 34-credit MDI curriculum allows students to gain a broad understanding of industry dynamics while building expertise in specific areas through a wide variety of electives.

Core Courses Include:
• Clinical Foundations of Medical Device Innovation
• Finance, Valuation & Entrepreneurship
• Quality, Regulatory & Manufacturing Management
• Biodesign Practicum

Elective Courses Include:
• Advanced Cardiac Physiology & Anatomy
• Creative Design Methods
• Healthcare Data Analytics & Data Science
• Human Factors in Design

Capstone
During the final semesters, students address a real-world problem or opportunity facing their organization or the industry as a whole. Using tools and methods learned in the program, students collect and analyze data, draw critical conclusions and make recommendations that create value and highlight their growing subject-matter expertise.

Information Sessions
Attend an information session to learn how the MDI degree program can help you reach your career goals. Information session attendance (in-person or remotely) is strongly encouraged for all prospective students. Contact TLI admissions for information regarding enrollment in the MDI program.

Our Graduates
MDI graduates are leading medical technology innovation as employees of a variety of companies, including:

• Abbott
• Boston Scientific Corp.
• Cantel Medical Corp.
• Coloplast
• Heraeus Medical

• Integer Holdings Corp.
• Medtronic
• Minnetronix, Inc.
• Phillips-Medisize
... and, in some instances, starting their own companies

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