LAUNCH YOUR CAREER IN TECHNOLOGY INNOVATION.

The MS in Technology Innovation prepares students to make lasting, real-world impact.

INDUSTRY SPONSORED PROJECTS, REAL-WORLD TECHNOLOGY SOLUTIONS

The UW MSTI provides students with the technical expertise, design thinking skills, and project-team experience to succeed in large tech companies, high-growth start-ups, or their own ventures. Working alongside industry professionals from partner companies and sponsors, students combine design thinking, hardware/software development, and entrepreneurship, preparing them for successful careers in the technology innovation sector.

The UW MSTI is the flagship degree program offered by the University of Washington's Global Innovation Exchange, an academic-industry partnership founded by the University of Washington, Tsinghua University, and Microsoft. The MSTI is fully hosted at the Steve Ballmer Building in Bellevue, Washington.

Design Thinking
Design intuitive and elegant technology that solves a clear design problem and fits the needs of its intended user.

Technology Development
Learn the fundamentals for developing end-to-end hardware and software prototypes. Cover topics such as managing data and signal processing, and robotics mobility and navigation.

Entrepreneurship
Understand the basics of forming a start-up, including team building, marketing, and intellectual property law. Develop the skills and knowledge to successfully bring innovations to market.

"I think working with engineers (including Fetch Robotics and Kinova) is very impressive. We gain knowledge of how they develop the entire product."

— Yifei Fang, UW MSTI Class of 2021

LEARN MORE ABOUT THE UW MSTI

18-month intensive program
Cohort program with project-based outcomes
Industry-sponsored 6-month Launch Project (Capstone)
Program begins in fall each year, with one optional summer internship period
PROGRAM MANAGEMENT FOR TECHNOLOGY PRODUCTS

The MSTI was designed to meet a pressing tech industry need: more managers and developers who could work in interdisciplinary areas, with a thorough understanding of not only technology subject areas, but also user-centered design and business perspectives.

BUILD INNOVATIVE SMART DEVICES OR ROBOTIC SOLUTIONS.

UW MSTI PROGRAM OPTIONS

Students have the option to focus on either connected devices or robotics, with curriculum and projects tuned to those interests.

Connected Devices

Learn how to analyze a market opportunity, design and build a working prototype, and propose a business model for connected devices and systems that address challenges in global health, manufacturing, conservation, education, and more. Gain a comprehensive understanding of the innovative devices fueling the growth of the Internet of Things.

The Connected Devices track prepares students for roles in rapidly growing fields including:

- Software development with expertise in AI, machine learning, and cloud computing
- User experience and human/computer interaction
- Product design and product development

Robotics

As new robotic applications continue to transform industries and sectors from medicine to manufacturing, the demand for an innovative workforce able to design and implement meaningful robotics solutions is growing. Bridge business principles, human-centered design, and robotics fundamentals like navigation, manipulation, and mobility.

Graduates of the MSTI Robotics Track will be well-equipped for roles in product management, design, validation, and testing in robotics-related industries including:

- Autonomous vehicle and drone applications
- Assistive robotics applications in healthcare
- Collaborative robotics applications for manufacturing and warehouse settings

PROJECT-BASED LEARNING OUTCOMES

Over 90% of MSTI graduates find jobs within six months of graduation.

Students have access to a variety of resources as they prepare for their future careers, including:

- A dedicated career development specialist
- 1-on-1 advising appointments
- Workshops
- Industry mentor program

MSTI graduates are working in companies around the world, working at large global corporations and small start-ups.

Typical roles include:

- Technical project manager
- Product manager/designer
- UX designer/researcher
- Software engineer/developer
- Machine learning engineer

STUDENT PROJECT HIGHLIGHT

Dronected, in partnership with T-Mobile

Drones are increasingly an important tool for helping Search & Rescue teams find people lost in the woods, but pilots are forced to split their time between flying the drone and searching.

Dronected seeks to utilize the additional capability of 5G wireless communication to stream video and location feeds wirelessly to multiple observers, allowing the drone pilot to focus on piloting while also enabling imagery analysis by dedicated teams. The team’s new workflow leverages 5G communication and machine learning, saving time and lives.

STUDENT PROJECT SUCCESSES

2022 Microsoft Imagine Cup Americas Region champions

MSTI students Shuoxuan Wang, Xiaoyang Qiu, and Jinyao Ouyang developed an integrated system that provides interactive speech therapy for children with hearing impairment.

Team Melodic was one of four MSTI teams that advanced to the regional finals. “I’m incredibly proud of the work done by Team Melodic and the other three teams that competed in the finals,” said Professor John Raiti, instructor of the hardware/software lab class where these ideas were born out of.

GIX PROTOTYPING LABS

The state-of-the-art GIX Prototyping Labs are integral to the MSTI student experience, as Labs staff and faculty help students complete a design and development cycle of their technology solution, going from a design concept to prototype, and iterating and improving their device with real user testing and research.

Prototyping Labs staff work with instructional faculty to ensure that students receive meaningful advice that advances their design before they’re even built. Launch project teams complete an iterative design cycle, including user research, two rounds of evaluative testing, and one round of functional testing.

Learn more at gix.uw.edu/prototyping-labs.

STUDENT QUOTES

“The great part about the MSTI program is they encourage you to take risks; you have all the facilities and resources you need. Fundamentally, it is a collaborative space, and we’re all working toward the same goal.”

— Will Buchanan, UW MSTI Alumnus
APPLICATION DEADLINE
The MSTI program admits new students for autumn quarter yearly. Applications open in August, with a priority deadline in January and a final deadline in April. Visit our website for more details.

ADMISSIONS REQUIREMENTS
- Bachelor's degree from a regionally accredited college or university in the United States or its equivalent from a foreign institution.
- Any major is acceptable, provided students have completed the prerequisite coursework or demonstrated software programming abilities through examples of work in a digital portfolio.
- For applicants who have not clearly met the prerequisites, an additional technical assessment may be required as part of the admission review process.
- Applicants who are evaluated as not meeting the prerequisites may be required to complete the GIX Technology Fundamentals Boot Camp prior to enrolling in the MSTI.
- A minimum 3.0 grade point average (on a 4.0 scale) for the last 90 graded quarter credits or 60 graded semester credits (international grades will be converted).
- Demonstrated English language proficiency for applicants whose native language is not English.

TUITION
The Master of Science in Technology Innovation is a self-sustaining, fee-based program administered by the Graduate School, in collaboration with UW Continuum College.

- Cost per credit: $927
- Number of credits required: 60
- Estimated course fees: $56,547 USD

MSTI students are eligible for a number of different scholarships, and all students are eligible for merit scholarships based on the strength of the application submitted. Students who qualify may also apply for other scholarships, including GIX Academic Network Fellowships, under-represented minority scholarships, veteran's scholarships, or Community College Excellence scholarships. Scholarships are awarded after admissions decisions are made, and while they provide some financial support, they do not cover all program fees or living expenses.

THE MSTI AT UW’S GLOBAL INNOVATION EXCHANGE
The MSTI is fully hosted at the University of Washington’s Global Innovation Exchange in Bellevue, Washington. GIX is a university-industry nexus for interdisciplinary education in technology innovation.

In partnership with corporate, government, and non-profit organizations, GIX delivers transformational learning experiences through world-class graduate and professional development programs.

GIX inspires innovators to solve real-world challenges through the responsible application of advanced technologies. It aims to increase the capacity of innovative leaders to create value, transform organizations, and improve the world. GIX is headquartered just outside of Seattle in the Steve Ballmer Building in Bellevue, Washington.

Learn more about GIX and the Steve Ballmer Building at gix.uw.edu.