GLOBAL INNOVATION EXCHANGE

Developing leaders in innovation

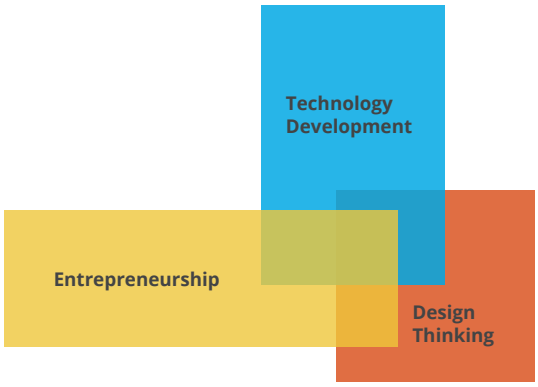
GRADUATE PROGRAMS IN

TECHNOLOGY INNOVATION

From smart homes to smart health, computing technologies are transforming our daily lives and powering innovation across the globe. Learn how to design, build, and launch innovative solutions for connected devices or robotics.

LEARN TO INNOVATE

We offer two interdisciplinary graduate programs — the 15-month Master of Science in Technology Innovation (MSTI) and the Dual Degree. Through intensive courses in design thinking, technology development, and entrepreneurship, the MSTI teaches the skills needed to take an innovation from concept to development and on to launch. Expand your global experience with a 21-month Dual Degree that includes six months of study in China.



"GIX is like going to a hackathon every single day – you come up with a rough idea, build a quick prototype. But because it actually isn't just one day you get to iterate on it until you're happy with it."

BETY MEHIDE, GIX MSTI GRADUATE

BECOME PART OF THE INNOVATION ECOSYSTEM

Join a community of innovators. Work alongside outstanding UW faculty who are pioneering connected device solutions and be mentored by technologists and startup entrepreneurs from Seattle's thriving tech scene.

PROGRAM QUICK FACTS

LOCATION
Global Innovation Exchange,
Steve Ballmer Building
Bellevue, Washington

DURATION
15 months/5 quarters
(60 credits)

FORMAT
Full time, days
Project-based,
working in teams

DUAL DEGREE OPTION
Extended 21-month program
includes study at Tsinghua
University in China

FOUNDING PARTNERS

UNIVERSITY of WASHINGTON

Tsinghua University

Microsoft

Master of Science in Technology Innovation (MSTI)

The MSTI is a full-time, 15-month (five-quarter) degree program that integrates three key disciplines: technology development, design thinking, and entrepreneurship. Pioneering a project-based learning model, GIX immerses students in the fast-moving, hands-on culture of rapid prototyping, critique, and iteration. Helping you to solve real-world challenges across high-impact fields, we facilitate opportunities for students to collaborate with leading industry and nonprofit partners.

PREPARE TO LEAD NEW VENTURES

MSTI graduates will acquire the technical expertise, design thinking skills, and business confidence to launch their own startup, join a new venture team at a leading company or nonprofit, or advance their academic pursuits.

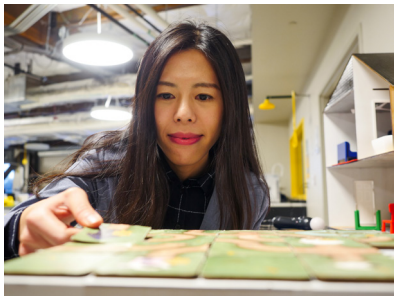
Design Thinking
Design intuitive and elegant technology that solves a clear design problem and fits the needs of its intended user.

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

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

"Through my work experience before studying at GIX, I realized that a good innovator and product manager needs to wear different hats when making decisions, especially in the fields of design thinking and technology. That is exactly what GIX offers. Right now, we're working on an augmented reality app! It's been a really rewarding experience."

VIVIAN HUANG, GIX MSTI GRADUATE



TO LEARN MORE

TWO MSTI TRACKS: CONNECTED DEVICES AND ROBOTICS

MSTI (Connected Devices Track)
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, and education. Learn about managing data, signal processing, sensors, and circuits to develop innovative devices fueling the growth of Internet of Things (IoT).

MSTI (Robotics Track)
MSTI is expanding to offer a track of study focused on robotics starting in fall 2020. Learn how to bridge business principles, human-centered design, and robotics fundamentals like navigation, manipulation, and mobility in this unique new interdisciplinary robotics degree to develop solutions that assist people in how they work, play, and learn. Applications accepted beginning in fall 2019.

WHO SHOULD APPLY

The UW Master of Science in Technology Innovation is designed for recent graduates and early career professionals. All applicants must have a bachelor's degree and basic computer programming proficiency. We're seeking a diverse cohort with a clear capacity for innovative thinking, creative problem-solving, and collaboration.

For more program details or to register for an upcoming information meeting, visit us online at **gixnetwork.org/programs**.

GIX Dual Degree (MSTI + MSE(DSIT))

Build on the MSTI degree and delve deeply into the fields of technology, design thinking, and entrepreneurship while engaging in a research-driven thesis.

STUDY IN CHINA

Expand your global perspective with a 21-month dual degree program that includes six months of study in China. The Dual Degree combines the UW MSTI program with the Master of Engineering in Data Science and Information Technology (MSE(DSIT)) program at Tsinghua University in Beijing. Instruction is in English at both locations.

For the first 15 months, students are focused on completing the MSTI curriculum in Bellevue, while also initiating their research-driven thesis with a Tsinghua faculty advisor. For the final six months, students attend Tsinghua University in Beijing and gain first-hand insights into the rapid economic and social growth in China – one of the largest global tech markets.

DUAL DEGREE **TIMELINE**

SEPT. — **MSTI / 15 months** — DEC. + **MSE(DSIT) / 6 months**

(GIX IN BELLVUE) — (TSINGHUA UNIVERSITY BEIJING)

OUTCOMES

JOB PLACEMENT

95% rate
by six months of graduation

Typical roles include:

- Technical PM
- Product Manager/ Designer
- UX Designer/Researcher
- Software Engineer/ Developer
- Machine Learning Engineer

MSTI supports students' career development by offering a variety of resources and events students can utilize as they prepare for their future career. Services include:

- 1-on-1 advising appointments
- Workshops
- Resource site
- Employer information and hiring events
- Career Newsletter

STUDENT–INDUSTRY PROJECT EXAMPLES

In collaboration with GIX's Consortium, which includes companies like Microsoft, T-Mobile, Nintendo, Harman, and Vulcan, graduate students form interdisciplinary teams to develop high-impact projects that address local and global challenges.

Examples:

CluckAI – Microsoft FarmBeats

In collaboration with Microsoft FarmBeats, students developed an AI-driven app solution that interprets chicken vocalizations and then notifies farmers when their chickens are in distress.

SparkEd – Lanxum

In collaboration with Lanxum, students designed and developed an educational game app that allows parents to personalize and remotely guide their child's learning experience.

FlaminGo – T-Mobile

In collaboration with T-Mobile, students designed and developed an augmented reality (AR) mobile game that explores and showcases the capabilities of the 5G network.

About GIX

The Global Innovation Exchange (GIX) is a new model of experiential education and practice to develop leaders in innovation. Starting with our project and team-based graduate degree programs, GIX will grow to include a broad array of innovation experiences for students, executives, and working professionals. Founded by the University of Washington, Tsinghua University, and Microsoft, GIX is a global collaboration between leading academic and cross-sector partners.

GIX Global Network

By collaborating across borders and boundaries, we've forged meaningful relationships with leading universities and organizations from all around the world.

Consortium Members
We partner with top organizations and nonprofits in the Seattle area to forge long-term relationships that lead to technical exchange, co-invention, and collaboration. Consortium members gain access to the GIX community, and may submit projects for students in the final phase of the curriculum. See gixnetwork.org/partners for more information.

Academic Network
The Academic Network creates and supports innovative programs, opportunities, and collaborations that leverage the GIX model and each institution's expertise, resources, and networks.

LEARN MORE AT GIXNETWORK.ORG