ImpactLab

Wentworth Institute of Technology
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A special invitation to Wentworth's pre-college adventure in science, engineering, and design.

Wentworth
INSTITUTE OF TECHNOLOGY

ImpactLab

Wentworth's pre-college adventure in science, engineering, and design.

The world we live in was built by problem solvers, driven by curiosity, and fueled by passion. Here at Wentworth Institute of Technology, we are developing the next generation of problem solvers. Located in the heart of Boston, our community is dedicated to providing project based learning and practical experiences.

These are truly exciting times at Wentworth! We are proud to share our engaging summer program for high schoolers. **ImpactLab** is an innovative two-week residential summer experience for rising juniors and seniors to explore their passions in science, engineering, and design.

Program Highlights:

> Get to know like-minded peers from around the globe as you preview college life.

> Experience our beautiful Boston campus and all this vibrant city has to offer.

> Learn alongside our engaging faculty and corporate partners, using state-of-the-art labs and studios.

Whether you are already familiar with Wentworth or just getting to know us, we promise to provide an insider's look at all the institute has to offer. We invite you to learn more about our program through this brochure.

Feel free to contact us with questions at 617-989-4000 or precollege@wit.edu

Looking forward to an impactful summer,

Andreas Armenis

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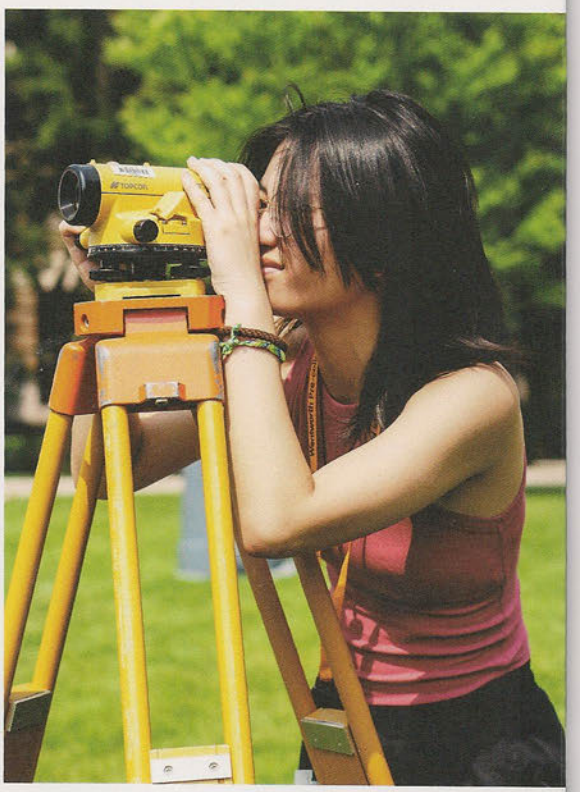
wit.edu/impactlab



What is ImpactLab?

Ready to explore your passions and try college on for size? ImpactLab is a summer residential experience that provides high schoolers with the chance to learn more about their interests and preview college majors early on. Get ready for an exciting array of academic experiences while exploring the heart of Boston this summer.

Audience

Open to rising high school juniors and seniors from across the country and around the world.

Dates

Choose from the following sessions:

Session I: July 7–July 19, 2024
Session II: July 21–August 2, 2024
Session I & II: July 7–August 2, 2024

Tuition

$3,495 for one two-week session or a discounted rate of $6,495 for both two-week sessions.

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Apply

It's easy to apply. Visit **wit.edu/impactlab** and submit your free application today!

Choose one of these two-week-long summer adventures in science, technology, and design.

The Art and Science of Making

In this creative adventure, you will explore techniques in Computer-Aided Design (CAD), laser cutting, 3D printing, and other tools and practices for designing and making your own inventions.

The Business of Innovating: Unlock your Entrepreneurial Spirit

This hands-on program will guide you through the entrepreneurial process and what it takes to put your business ideas into action. You will build your brand, business plan, and network with industry experts, learning the ins and outs of entrepreneurship. Get ready to turn your innovative concepts into tangible solutions through a culminating pitch competition.

Climate Change and Urban Resilience

All around the world environmental issues are threatening major cities resulting in catastrophic impacts on our physical and social environments. In this interdisciplinary program, you will leverage science along with social, political, and economic concepts to develop strategies and respond to disasters affecting societies around the world. Using Boston as your laboratory, you will analyze how environmental issues can impact contemporary cities and generate solutions that will create more resilient societies. After all, cities are much more than just their built environments.

Computer Science & Programming Fundamentals

Whether you are a beginner with programming or looking to refresh your knowledge of computer science, this program is geared toward all levels of computer expertise. You will explore python and cover concepts such as programming structures, data types, loops, conditionals, and functions while building a computer project of your choosing alongside Wentworth faculty.

Computer Science & Society

How do we use digital tools to make the world a better place? At the intersection of computing and humanities, this course explores the use of technical tools to study social problems through computer science while examining the rise of artificial intelligence and the ethical considerations for its impact.

Engineering Exploration

Think you want to be an engineer but aren't sure what area is right for you? Spend a few days exploring civil, mechanical, electrical, and biomedical engineering to find out which engineering field is the best fit.

Game Development and Multimedia Studio

This program provides a guided introduction to the concepts and skills behind game development and multimedia applications using the Unity game engine and C# programming language. You will learn to take a game from concept to creation, learn about the mechanics of game development, AI for games, 2D and 3D art animations, sound, and visual effects, and multimedia programming.

Introduction to Architecture and Design

Architecture, Industrial Design, and Interior Design include the design of products, games, environments, buildings and cities. Through hands-on experience drawing and making, you will build your portfolio and learn how each discipline, and design at every scale, makes the world a better place.

Introduction to Robotics Engineering

Find out what makes a robot tick. You'll discover the secrets to building the world's most advanced robots using innovative technologies, and the interplay in the application of electrical engineering, computer programming, and mechanical engineering towards robotics.

Leadership Academy for Social Change

Do you have a desire to lead, inspire, and make a positive impact on the world? Through this transformative program, you will unlock your leadership potential through workshops, service projects, and opportunities to connect with prominent business leaders. This program will provide you with valuable knowledge and skills that will help define your leadership style, build your confidence, and set you on the path to success!

Nuts and Bolts of Mechanical Engineering

Engineers know that sometimes the best way to find out how things work is to take them apart! In this hands-on course you will explore the concepts of mechanical design, manufacturing, and materials as you de-construct, rebuild, and test your own small engine. You will collaborate in teams and acquire essential knowledge, develop problem-solving skills, and participate in hands-on engineering projects while working alongside our highly skilled mechanical engineering lab managers in our state-of-the-art labs.

Women Innovators: Build, Learn, and Grow!

Whether you're an inventor, innovator, or entrepreneur, generating ideas and solutions that solve real-world problems is valuable no matter what you want to do in life! Come learn more about the process of innovation by brainstorming new ideas, getting feedback, and building rapid prototypes to problems you want to solve! This opportunity is open to all students.

> Visit wit.edu/impactlab for details on session offerings.

FAQ—The ImpactLab Experience

Will the courses include tests and exams?

No—these non-credit courses will not require quizzes, tests, or homework. ImpactLab is all about exploration. Each course will have some lectures but will emphasize hands-on experiences with extensive project work.

Is this a residential program?

Yes, we wanted you to be able to try a true college experience on for size, so we have arranged for you to stay in Wentworth's air-conditioned residence halls.

Who will I be working with?

You will work closely with your peers in the program, with Wentworth undergraduates, and with full-time and adjunct Wentworth faculty.

Where will the courses take place?

In the state-of-the-art labs and classrooms of our Boston campus. Our neighbors include Boston University, Northeastern University, the Museum of Fine Arts, and Fenway Park.

Is this program open to international students?

Yes! International high school students heading into their equivalent junior or senior year are encouraged to apply to ImpactLab. The application process is the same for all students regardless of citizenship status.

Will I have fun?

ImpactLab will be stimulating, fun, and action-packed. Each course is centered around hands-on projects and field trips. The program also offers a wide array of social activities on and off campus.

Program At-a-Glance

The ImpactLab program at Wentworth Institute of Technology provides high schoolers with an opportunity to preview college life while exploring their passions in science, engineering, entrepreneurship, and design.

31 Acres of campus in the heart of Boston

16 States and 10 Countries represented

10:1 student to staff ratio

100% of courses taught by Wentworth faculty

100% of students live on campus

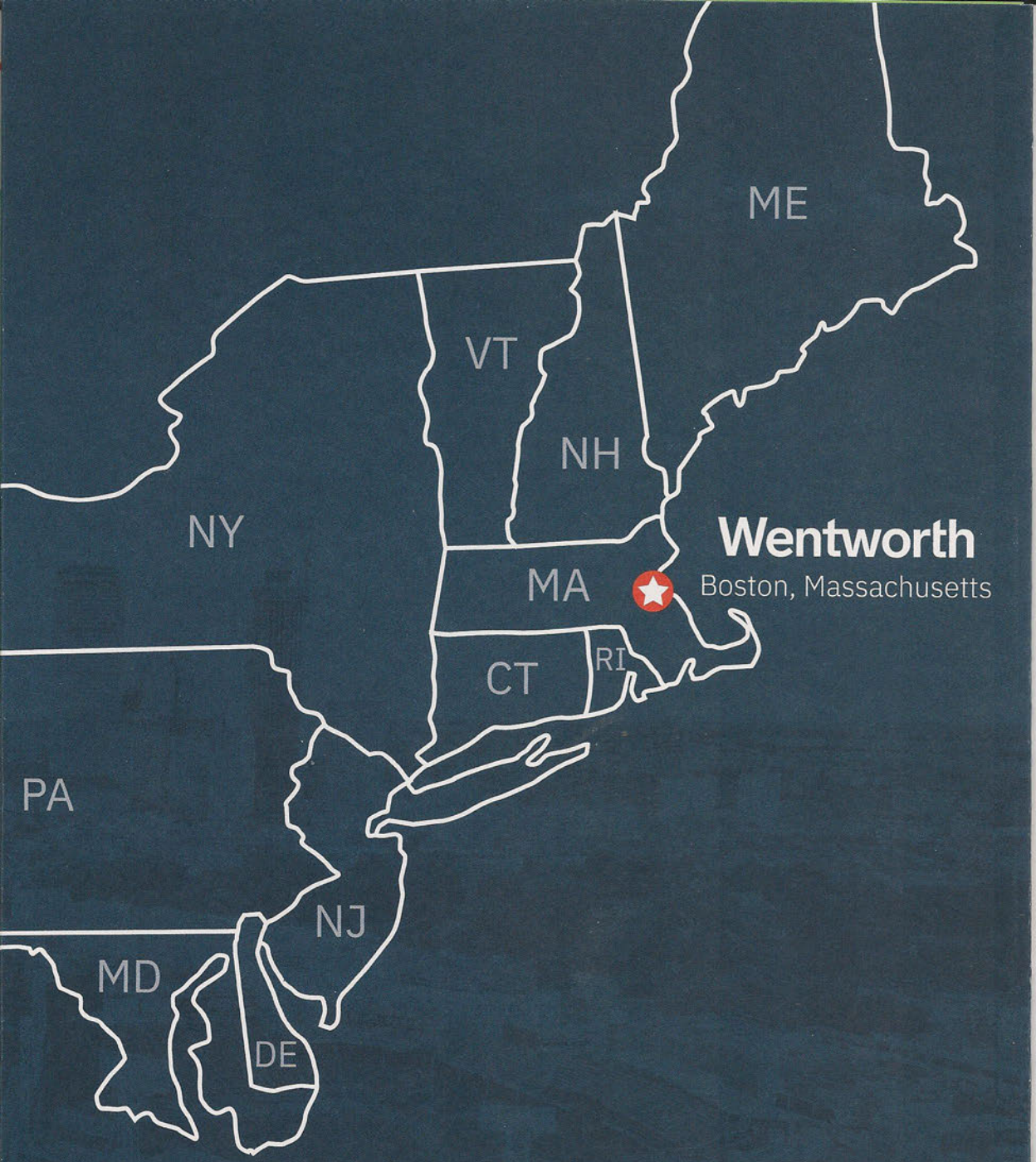
200+ activites on and off campus

1 Day of industry exploration

60+ state-of-the-art labs and studios participants utilize

10 dedicated undergraduate peer mentors

Community Service opportunities



Wentworth
Boston, Massachusetts

Ready to embark on your pre-college adventure?

Make it here this summer.

@witprecollege wit.edu/impactlab /witprecollege