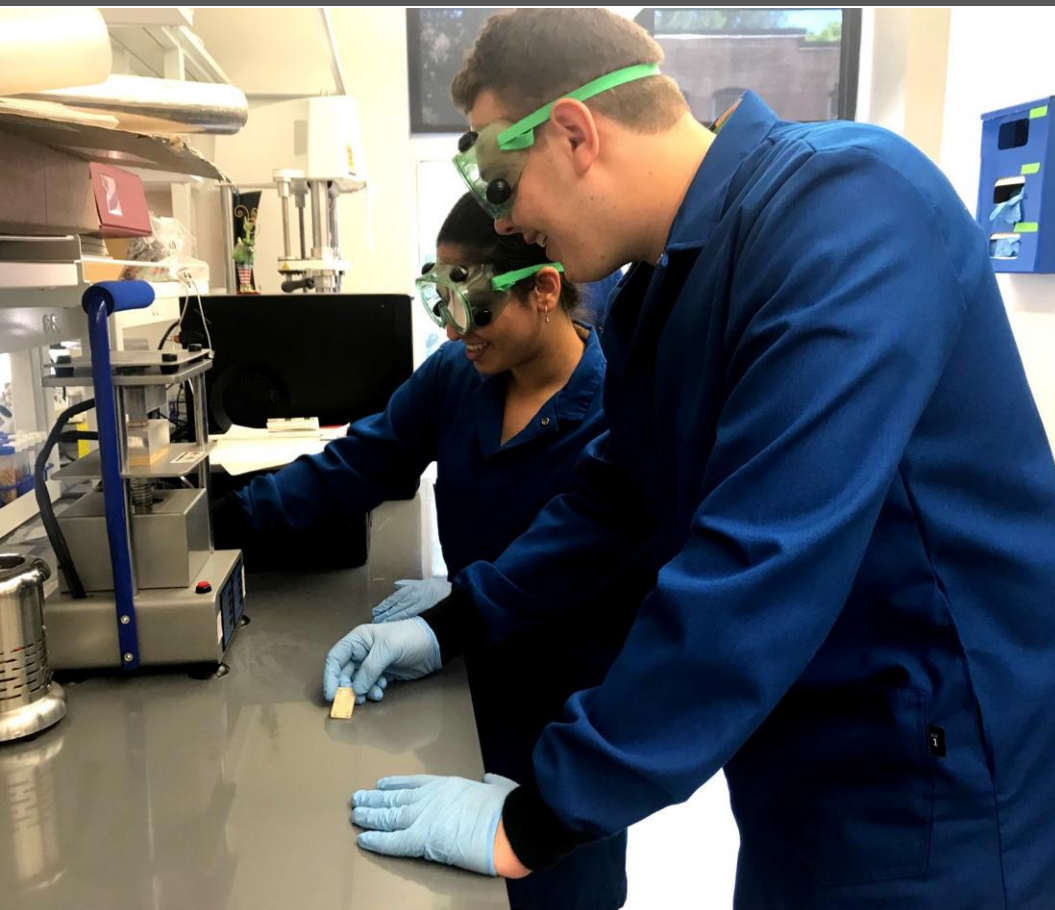


YOUNG SCHOLARS PROGRAM

A Hands-on Summer Research Program for High School Students



OUTCOMES

- Over 600 students have participated in YSP
- ~99% of our alumni are enrolled in or have completed a bachelor's degree in a STEM field
- Many YSP alumni have and continue to attend universities across the country such as Northeastern University, Harvard, Boston University, MIT, Johns Hopkins, Brown and others.

WHAT IS YSP?

The Young Scholars Program (YSP) offers future scientists and engineers a unique opportunity for a hands-on academic research experience while still in high school. The program is open to Boston area applicants who have completed their junior year.

YSP seeks to maintain a balance between academic and social components, providing students an opportunity to build relationships with university students and faculty, in addition to fellow participants. Our objective is to create and support a STEM community well beyond the six-week summer experience.

Applications for YSP *open* December 15, 2025 and *close* March 2, 2026. Scan the QR code (right) for more info and to apply.

PROGRAM DETAILS

- June 22 —> July 30, 2026
- Program days run M-Th from 8:30am to 4:30pm

MISSION

Our mission is to provide students from the Boston area an opportunity to experience science and engineering research at the university level, thus supplementing their classroom experience and preparing them for college and an exciting career in STEM.



Northeastern University
Michael B. Silevitch and
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for STEM Education



2026 Young Scholars Program

"YSP gave me a chance to try research and get my hands dirty in the best possible way. There's nothing more valuable to a budding STEM researcher than being involved in a lab to practice the scientific method and learn to troubleshoot. You just can't learn that from a book or in a basic classroom. I enjoyed being in a lab setting during the program and that encouraged me to continue to look for opportunities in college and beyond."

- YSP Participant

PROGRAM HIGHLIGHTS

- **Laboratory research experiences**—working in state-of-the-art laboratories on Northeastern University's campus.
- **Career/research exploration**—speak directly with faculty about current research in science and engineering.
- **Education and career counseling**—hear from Northeastern staff, students, and YSP counselors about the various pathways available for STEM students.
- **Field trips**—discover the real-world applications of STEM by visiting local industries and organizations.
- **Experience college life**—spend your days on a year-round campus, engaging with current Northeastern students.

RESEARCH PROJECTS*

- (ChemE) Stability Assessment of Electrocatalysts for CO₂ Reduction
- (ChemE) Analyzing Organ-on-a-Chip Systems to Improve Drug Screening
- (ChemE) Mitigating Capacity Loss in Rechargeable Batteries
- (ChemE) Nanoparticles for Sustained Agrochemical Release
- (CivE) Activated Carbon Cathodes for Sustainable Water Treatment
- (ECE) Data Dictionary Variables Using Natural Language Processing
- (ECE) DC-DC Converter for Solar Powered Phone Chargers
- (ECE) Integrated Magnetic Transducer for Advanced Magnetic Sensors
- (ECE) Design Solutions for Crater Observing Bio-inspired Rolling Articulator
- (ECE) Temperature Sensor Outputs for Power Dissipation Monitoring
- (MIE) Heart Disease Models for Better Patient Understanding
- (MIE) Modeling Drug Delivery to Gliomas
- (MIE) Iron Fuel Cycle for Carbon-Free Coal Replacement
- (MIE) Effects on Rehab Completion in Opioid Users
- (Physics) Systematics Mitigation in SuperBIT Weak Lensing Data
- (Psych) Dopamine's Role in Adolescent Learning and Memory

**Please note that these are projects from 2025.
projects for the upcoming summer are TBD.*



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<https://stem.northeastern.edu/>

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