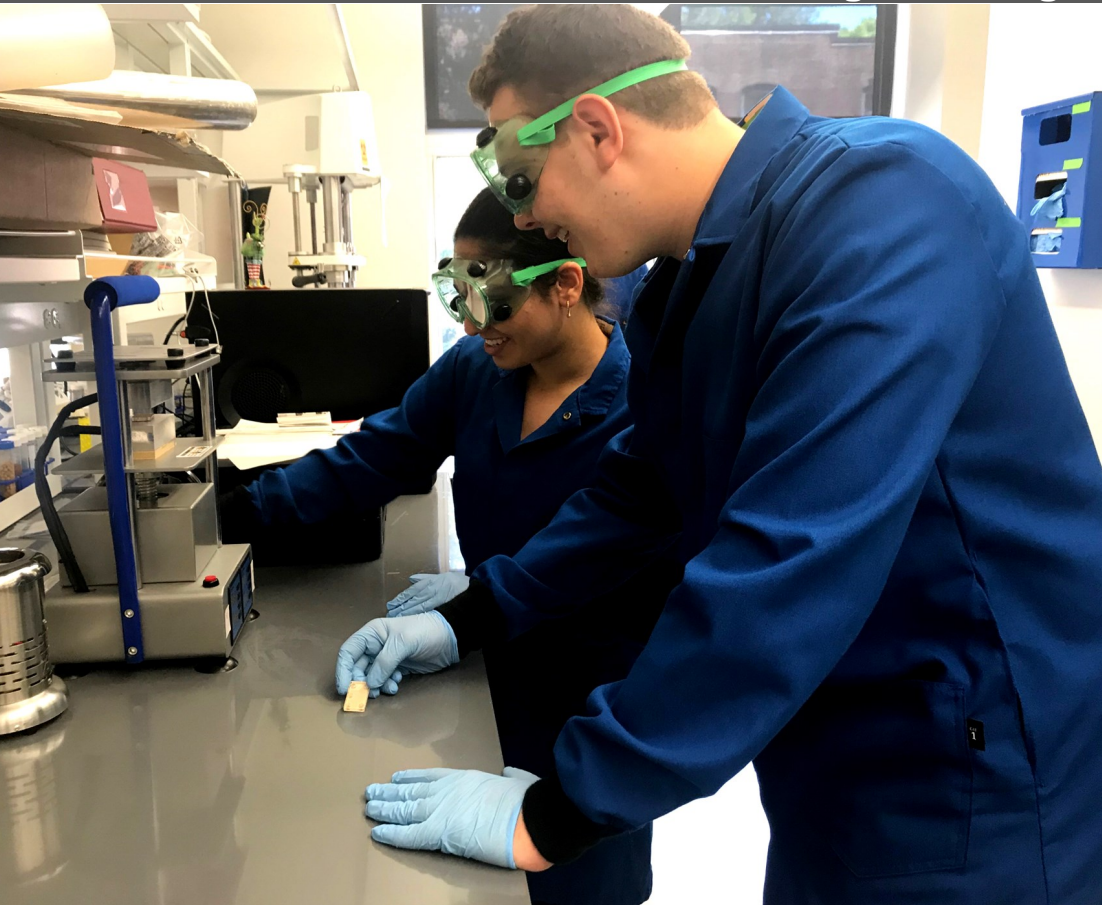


# YOUNG SCHOLARS PROGRAM

A Hands-on Summer Research Program for High School Students



## 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 1, 2024 and *close* February 20, 2025. Scan the QR code (right) for more info and to apply.



**Northeastern University**  
**Michael B. Silevitch and**  
**Claire J. Duggan Center**  
**for STEM Education**



## 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.

## PROGRAM DETAILS

- June 23 —> July 31, 2025
- Program days run 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.

# 2025 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*

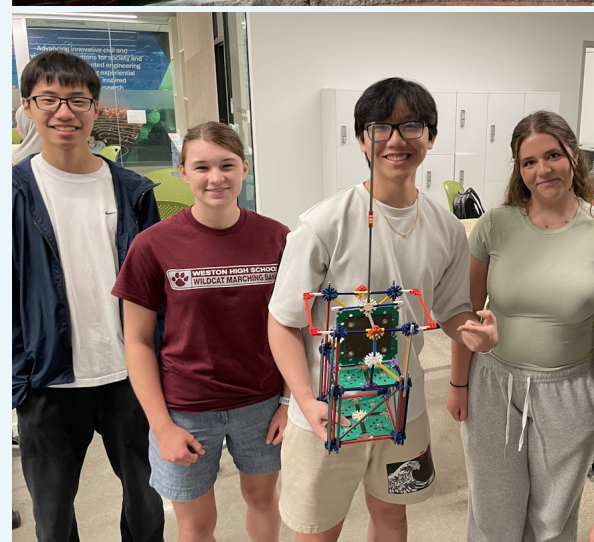
## PROGRAM HIGHLIGHTS

- **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) Predictability in Antibody-Antigen Interaction Characterization
- (ChemE) Regulators of Blood-Brain Barrier Permeability
- (ChemE) Engineering Microfluidics for Human Health Applications
- (ECE) DC-DC Converter for Solar Powered Phone Chargers
- (ECE) Thermal Effects of Terahertz-Band Radiation on Heart Tissue
- (ECE) Effects of Uncertain Situations on Autonomous Vehicle Navigation
- (EnvE) Electro-Oxidation Water Filtration Efficiency
- (IndE) Impact of Rehabilitation for Individuals with Substance Use Disorders
- (MIE) Quality Optimization for FDM Printing with Machine Learning
- (MIE/BioE) Mechanoadaptation in Burrowing Mice
- (Psych) Motivated Learning in Adolescence

*\*Please note that these are projects from 2024. projects for the upcoming summer are TBD.*



**Northeastern University**  
**Michael B. Silevitch and**  
**Claire J. Duggan Center**  
**for STEM Education**

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

**Claire Duggan** | 617.373.2036  
Executive Director

**Jennifer Love** | 617.373.3551  
Associate Director

**Nicolas Fuchs** | 617.373.3382  
Program Manager

**Mary Howley** | 617.373.8497  
Administrative Coordinator

009 Dana Research Center  
110 Forsyth Street  
360 Huntington Avenue  
Boston, MA 02115