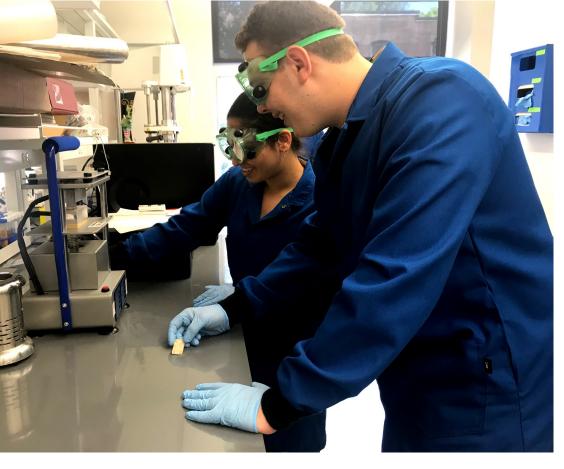
YOUNG SCH & LARS PROGRAM

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 in high school.

The program 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 the Young Scholars Program <u>open</u> on December 15, 2021. Visit <u>https://stem.northeastern.edu/summer/ysp/</u> for additional info.



Northeastern University Center for STEM Education

HIGHLIGHTS

- Over 570 students to date have participated in the NEU YSP program.
- Over 80% of our alumni are enrolled and/or have completed a bachelor's degree in a STEM field.

 YSP alumni are attending universities across the country. Large cohorts of alumni can be found at Northeastern University, Harvard, MIT, Boston University, Tufts, Yale, and UMASS Amherst.

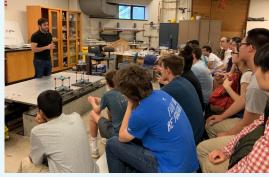
PROGRAM DETAILS

- June 27 —> Aug 4, 2022
- Program days run from 8:30am to 4:30pm

MISSION

Our mission is to provide academically gifted 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.







2022 Young Scholars Program

STRATEGIES

- Laboratory research experiences—working in state-of-the-art laboratories on Northeastern University campus.
- **Career/research exploration**—speak directly with Northeastern 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, intermingling with current Northeastern students.
- **Stipend**—earn while you learn! Students are provided a stipend to ensure that all costs during the program are covered!

RESEARCH PROJECTS*

- Solar Powered Charger
- Particulate Flows in Small Channels
- Designing and Testing New Communications Signals for 6G Networks
- Accelerating Clustering for Breast Cancer Tumor Diagnosis
- Automating Live/Dead Cell Quantification to Determine Biocompatibility
- Novel Nanomedicine for Cancer
- Digitally-Programmable Analog Filter Configuration
- Applying Reinforcement Learning Algorithms to Novel Environments
- Self-Driving Cars Control that is Robust to Error-Prone Human Drivers
- Quantum Computing; What and Why?
- Schwann Cell Migration Enhanced by Laminin-Derived Peptide Gradients

*These are past projects. This summer's projects are TBD.



https://stem.northeastern.edu/

Center for STEM Education's Young Scholars Program

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