

The LLE summer program can be a life-changing experience

“THANK YOU for launching my career! I hope you realize how many people’s lives you have influenced over the course of the summer internship program.”
Megan, program alumna

“I learned about this position from two previous interns, who both praised it as a wonderful way to experience and actively take part in scientific research.”
Program applicant

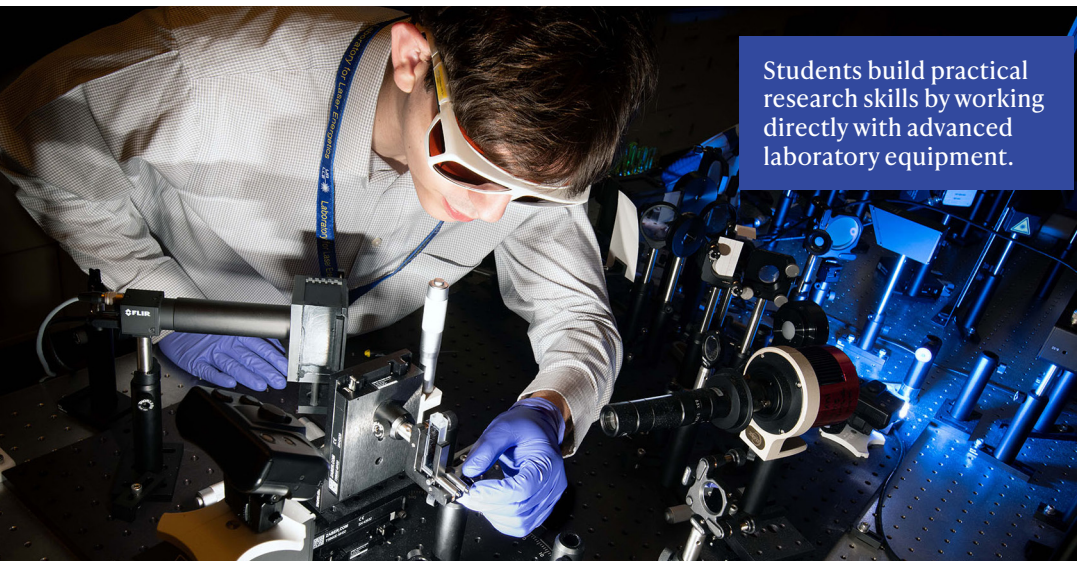
“The LLE internship program is a tremendous asset to our community and represents an unparalleled investment in the development of scientific talent in Rochester youth.”
Larry, father of a program alumnus

“The high school program is a fantastic opportunity for budding scientists and engineers.”
Steven, program alumnus

“Dave’s marvelous LLE experience was a life-altering, inspirational event.”
Robert, father of a program alumnus

It was a really formative summer for me. You are changing lives through the program!”
Wen-fai, program alumna

“I was looking at summer research opportunities and this one checked all the boxes. It was a paid internship with a chance to do research with distinguished scientists. It was perfect. And the building is massive and super cool.”
Chloe, program alumna



Students build practical research skills by working directly with advanced laboratory equipment.



Summer High School Program students learn from expert researchers at the world-class Omega Laser Facility.

Timeline

| | |
|---------------|---|
| Late January | Application materials are posted to the LLE website |
| Late February | Application deadline |
| March | Interviews for first-round candidates |
| Early April | Selection announcements |
| July, August | Program dates—eight weeks starting after July 4 |

Visit www.lle.rochester.edu/education for more.

Questions? Please contact:

Dr. R. Stephen Craxton
Program Director

Liz Conrow
Program Administrator

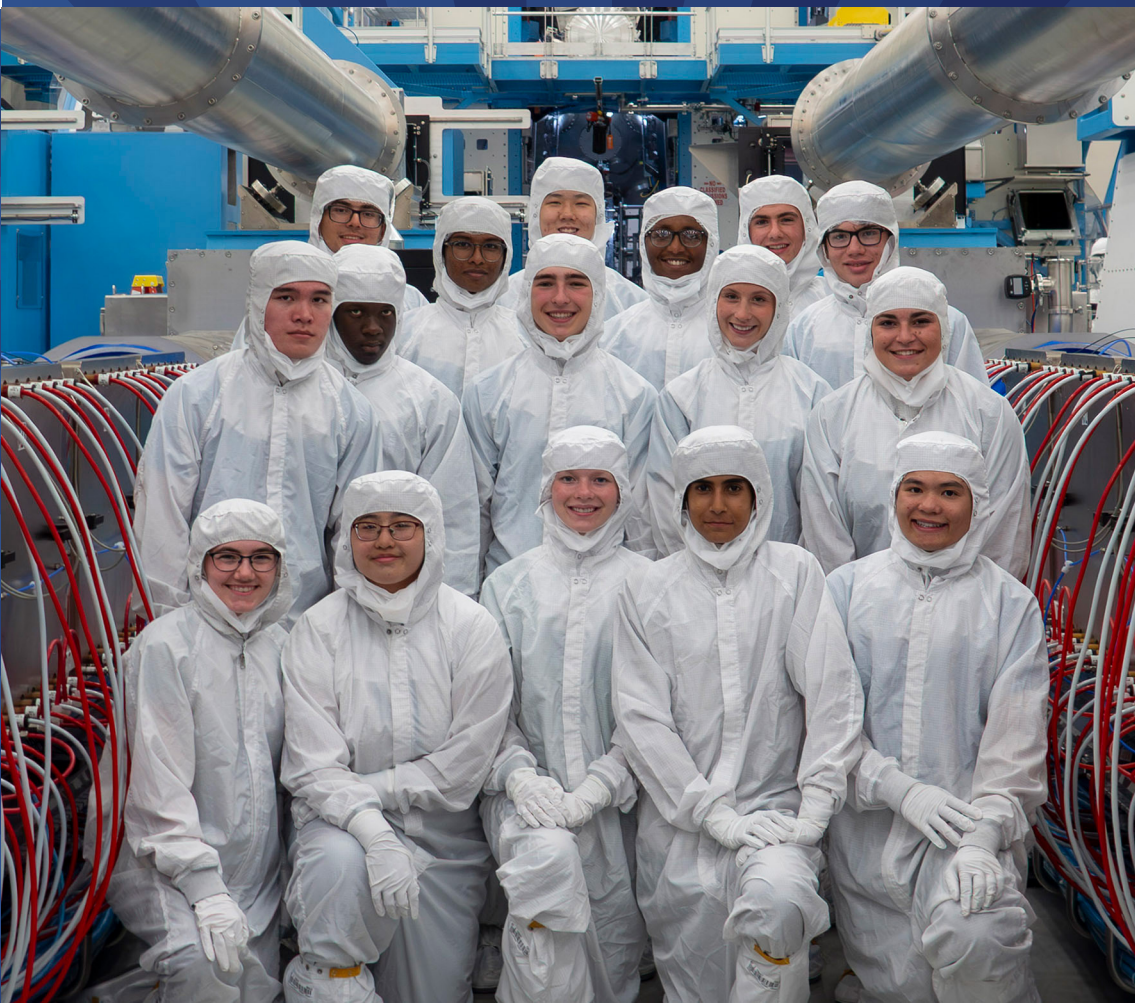
HSPprogram@lle.rochester.edu



www.lle.rochester.edu/education/summer-high-school-research-program/

UNIVERSITY OF ROCHESTER
LABORATORY FOR LASER ENERGETICS

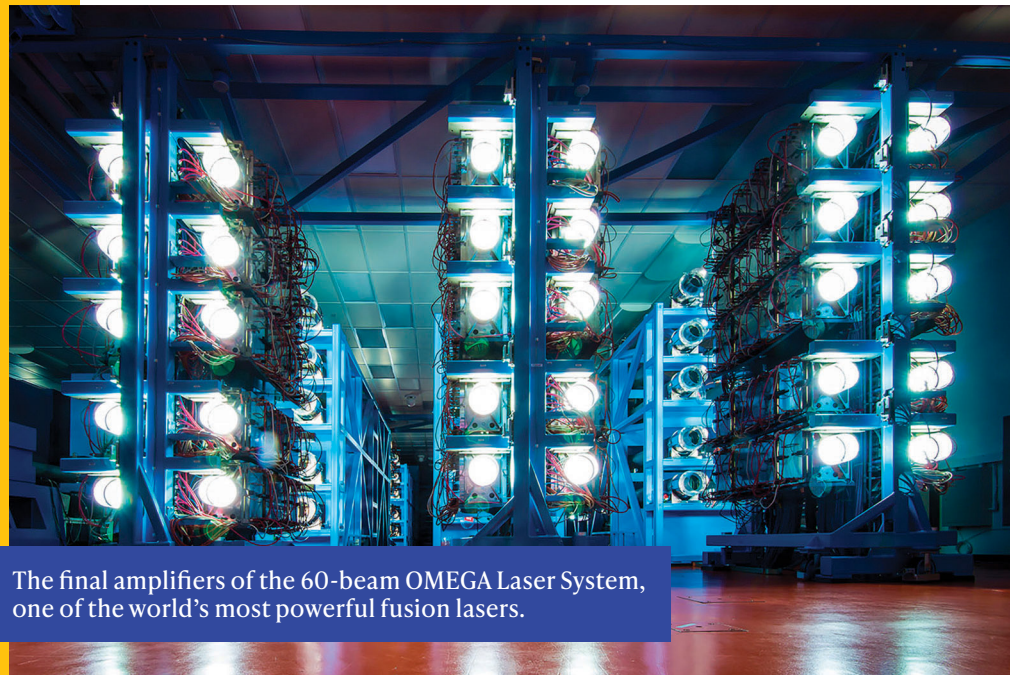
SUMMER HIGH SCHOOL
RESEARCH PROGRAM



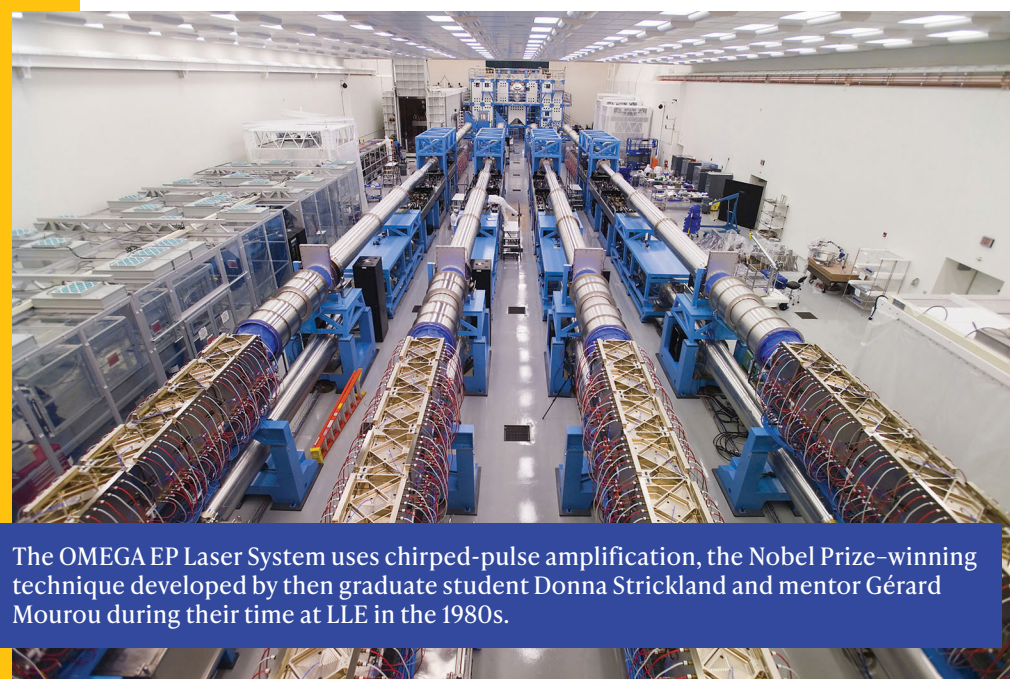
University
of Rochester

What is the Laboratory for Laser Energetics?

Sponsored by state and federal funds, LLE houses the world's two largest academic laser systems, OMEGA and OMEGA EP. Renowned for pioneering research in fusion, plasma physics, and high-energy-density physics, LLE drives discovery and scientific innovation while playing a vital role in educating future scientists and engineers.



The final amplifiers of the 60-beam OMEGA Laser System, one of the world's most powerful fusion lasers.



The OMEGA EP Laser System uses chirped-pulse amplification, the Nobel Prize-winning technique developed by then graduate student Donna Strickland and mentor Gérard Mourou during their time at LLE in the 1980s.

LLE's Summer High School Research Program

Experience cutting-edge scientific research at a university laboratory. Students conduct research full time on individual projects advised by an LLE scientist or engineer. The projects are related to the advisors' current research interests.

To Apply

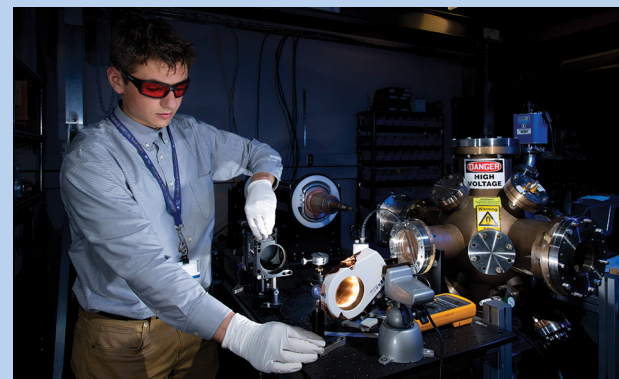
Students must submit a transcript, recent report card, letter of recommendation, and cover letter; write a short essay describing their interest in science and technology; and fill out an application at www.lle.rochester.edu. Visit our website for full instructions and information.

Eligibility

High school students from the Rochester region that are currently in their junior year are encouraged to apply. Students must be available for the entire duration of the program.

Compensation

Participants conduct research up to 35 hours each week and are compensated for participation in the program.



A Churchville-Chili High School student conducts an experiment in LLE's magneto-inertial fusion electrical discharge system laboratory.

Mercy High School student with advisor Russ Dent measuring the dimensions of a diffraction grating using a scanning electron microscope in the Optical Manufacturing Metrology Lab at LLE.



Students in this program develop the technical experience needed to pursue careers in advanced science and engineering.

Projects

Past student projects focused on:

- laser physics
- computational modeling of implosion physics
- experimental modeling and data analysis
- optical design
- diagnostic development, characterization, and modeling
- cryogenic target characterization
- experimental, computational, and physical chemistry
- tritium capture and storage
- laser system modeling and diagnostics
- web-based application development
- electronics
- imaging of biological samples

At the end of the program, students present their projects at a symposium at LLE.

Apply today at lle.rochester.edu