

UNIVERSITY OF ROCHESTER LABORATORY FOR LASER ENERGETICS

SUMMER HIGH SCHOOL RESEARCH PROGRAM

Imagine Yourself Here

Victor High School student Katherine Kopp was mentored by LLE scientist Stavros Demos. She helped develop lab exercises that high schools can use with a new, inexpensive imaging technology developed at LLE.



July 7–August 29, 2025

8:30 a.m.–5:30 p.m.

250 East River Road Rochester,
New York 14623

Experience cutting-edge scientific research in a realistic environment!

The Laboratory for Laser Energetics (LLE) at the University of Rochester holds a summer research program for up to 17 highly motivated Rochester-area high school students who have just completed their junior year.

Research

Students who are accepted into the program will be assigned to a research project of current scientific interest and supervised by a staff scientist or engineer at the Laboratory for Laser Energetics. These projects form an integral part of LLE's research program and are related to LLE's 60-beam OMEGA laser, one of the world's most powerful fusion lasers, and the four-beam OMEGA EP laser.

Projects

Projects in recent years covered a broad range of scientific topics including experimental diagnostic development, computer modeling of implosion physics, plasma physics simulations, cryogenic target characterization, experimental design, irradiation uniformity, physical chemistry, laser physics, optical materials characterization, future laser system design, machine learning and scientific data management. The program culminates with a symposium at LLE at which students present the results of their projects.

Compensation

Participants work 40 hours per week and receive the current minimum wage.

Eligibility

Only Rochester-area high school students currently in their junior year are eligible.

To Apply

Students must:

1. Submit a transcript, a recent report card, and a letter of recommendation.
2. Write a short letter and an essay describing their interest in science and technology.
3. Fill out an application at www.lle.rochester.edu.

Visit our website for more information or to apply.



[www.lle.rochester.edu/
education/summer-research-
program-for-high-school-juniors/](http://www.lle.rochester.edu/education/summer-research-program-for-high-school-juniors/)

Questions? Contact

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