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 approximately 12 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 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 the last two program 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, optical materials characterization, future laser system design, 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 $15.00 per hour.

Eligibility

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

To Apply

Students must submit a transcript, recent report card, and letter of recommendation; write a short essay describing their interest in science and technology; and fill out an application at www.lle.rochester.edu. The application deadline is March 15, 2022. Visit our website for full instructions and project reports from previous years.

Questions? Contact

Kimberly Truebger, Program Coordinator
(585) 275-6414
ktru@lle.rochester.edu

R. Stephen Craxton, Ph.D., Program Director
(585) 275-5467
scra@lle.rochester.edu