PHOTON CAMP
June 25–29, 2018, from 9 a.m.–5 p.m.

The University of Rochester’s Photon Camp is intended for rising high school juniors and seniors with a strong background in math and physics. It introduces students to the wide applicability of optics in modern technology, engineering, and basic scientific research.

Following Photon Camp there is an opportunity for a six-week paid research internship. The internship runs from July 2 through August 10. Photon Camp applicants interested in the internship should contact Nick Vamivakas (see contact information on back panel).

Capstone Projects
The students will present capstone projects that were developed during Photon Camp. Parents, friends, teachers, etc., are invited and encouraged to attend this event. Past capstone projects have included:

- Thermal Imaging
- Optical Communication
- Digital versus Analog Imaging
- Solar Energy
- Cellphone Camera versus Digital SLR
- Illumination/Fluorescence

For general information or to apply, visit www.optics.rochester.edu/about/photon-camp.html

Questions? Please contact:
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What Is Optics?

Optics is all about light: how it’s generated, propagated, manipulated, and detected. Its applications can be found in our everyday lives—barcode scanners, cameras, laser printers, fiber-optics communication, and medical imaging—and also in new frontiers such as space telescopes, quantum cryptography, laser fusion, and plasmonics.

The science of optics has a long history. It has occupied the minds of many of the greatest scientific thinkers: Galileo, Descartes, Huygens, Newton, Maxwell, Rayleigh, and Einstein.

What Is The Institute of Optics at the University of Rochester?

The Institute of Optics, internationally known as a leading center of education and research, has been educating scientists in the field of optics since 1929. The city of Rochester has been called the optics capital of the country, having a history of leadership in the optics industry by such companies as Eastman Kodak, Bausch & Lomb, Xerox, and Tropel. Distinguished citizens of Rochester George Eastman and Edward Bausch were associated with the founding and nurturing of the institute. The Institute of Optics has been strong in research in the traditional area of optical engineering as well as the more recently developed areas of quantum optics and laser physics.

Camp Content

Students will attend lectures by Institute of Optics faculty and staff in the morning and spend the afternoon in the lab. The camp typically includes a field trip to an area industry site and the Laboratory for Laser Energetics (LLE). Past lab experiments/demos have included:

- HeNe, CO2, and Nd:YAG Lasers
- Fiber Splicing
- Holography
- Spectroscopy
- Interferometry
- Pinhole Camera
- H-alpha Telescope

Application and Fees

The application deadline for Photon Camp is May 25, 2018.

- There is no charge for participation in Photon Camp.
- No college credit will be awarded for completing Photon Camp.
- Photon Camp alumni are eligible for University of Rochester Early Connection Scholarships.

“Photon Camp was an excellent opportunity to gain firsthand college experience. There’s more to optics than most people realize!”

—Danielle, Photonics Camp alumnus