Why Join CeFO?

- Be at the forefront of the freeform revolution
- Join the development of freeform technology roadmaps
- Accelerate time to market of new technologies
- Demonstrate new capabilities
- Access the center's intellectual property
- Leverage research funds
- Mentor graduate students for potential recruitment

Freeform optics reduce part count, improve performance, unconstrain optical design, and shrink package size.

"OUR GOAL IS TO HELP OUR INDUSTRIAL MEMBERS BRING PRODUCTS TO MARKET FASTER, AT REDUCED COST, WITH NEW BREAKTHROUGH FEATURES AND CAPABILITIES."

Jannick P. Rolland, PhD
Director of CeFO

CeFO

THE CENTER FOR FREEFORM OPTICS
AN INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER

ACADEMIC PARTNERS

UNIVERSITY of ROCHESTER

NSF

UNC CHARLOTTE

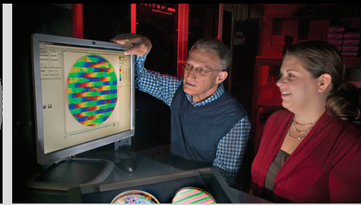
LEARN MORE AT
www.CenterFreeformOptics.org

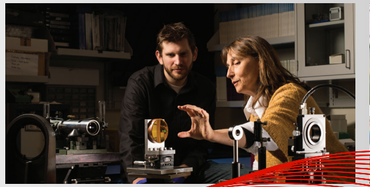
Or contact JANNICK P. ROLLAND at ROLLAND@OPTICS.ROCHESTER.EDU

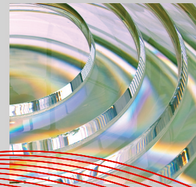
Photos courtesy of J. Adam Fenster, Eugene Kowaluk, and Jacque Photo LLC

JOIN THE FREEFORM REVOLUTION

THE CENTER FOR FREEFORM OPTICS
AN INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER







CeFO

Accelerate the Impact of Freeform Optics on Our Collective Future

The Center for Freeform Optics (CeFO) was established in 2013 as a collaboration between industry and university, supported by the National Science Foundation.

VISION

Compact, affordable, and performant optical systems will permeate precision technologies of the future.

MISSION

The mission of the Center for Freeform Optics (CeFO) is to advance research and education in the science, engineering, and applications of systems based on freeform optics through a dedicated, continuing industrial partnership based on shared value and promotion of technical advantage leading to a competitive economic advantage for CeFO members.

JOIN US TODAY!

Robert B. Goergen Hall for Biomedical Engineering and Optics at the University of Rochester

- Selected by the National Science Foundation
- A legacy of centers in manufacturing
- Committed to innovation
  - 2 universities
  - 5+ departments
  - 13+ faculty members
  - 7+ students
  - 7 founding members

Recognized Global Innovation Leaders in Optical Technology

UNIVERSITY OF ROCHESTER

- The Institute of Optics, the nation's first academic institution devoted to training optical scientists and engineers
- The Laboratory for Laser Energetics, home to two of the world's most powerful high-intensity lasers and a world-class coating facility
- Expertise in materials science, precision mechanics, optomechanics, and nanotechnology (URnano)
- Proximity to and collaboration with the University of Rochester Medical Center (URMC)

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

- Home to Center for Precision Metrology, a world-leading research facility in dimensional metrology
- Center for Optoelectronics and Optical Communications has full suite of micro-optics and lithography tools to enable fabrication of multi-scale optical surfaces
- Expertise in single-point diamond machining, precision machine design, optical testing, and materials characterization
- Tradition in multidisciplinary research and education for precision and optical engineering

Where Do You Fit In?

TRANSPORTATION
heads-up display (HUD)

SEMICONDUCTORS
lithography
inspection

OPTICAL TRANSFORMATIONS
quantum cryptography

MOBILE DISPLAYS
headworn
handhelds

FREEFORM OPTICS

ENERGY RESEARCH
photovoltaics
laser beam transport

LIGHTING
automotive
LED
OLED

MEDICAL
assistive technologies

REMOTE SENSING
down-looking satellite
ubiquitous data collection
astronomical instrumentation

INFRARED AND MILITARY
ISR (intelligence, surveillance and reconnaissance) systems