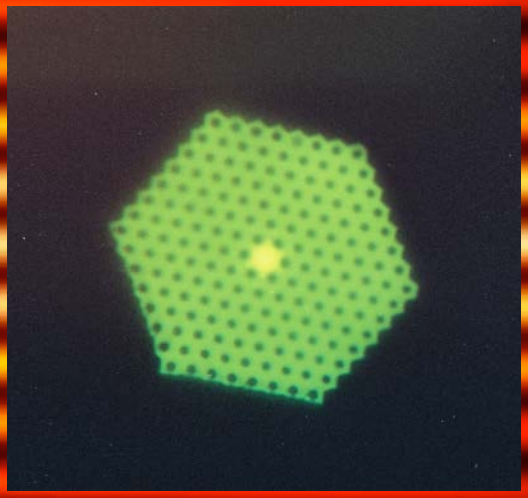
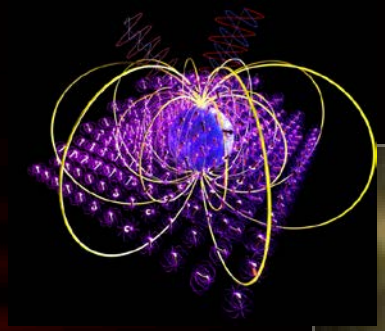
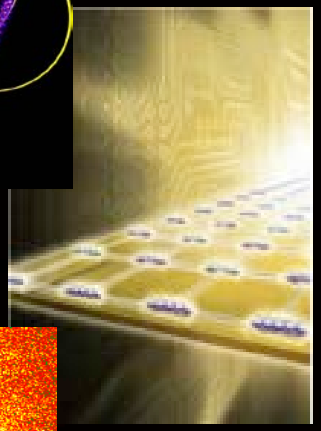
About C-PHOM

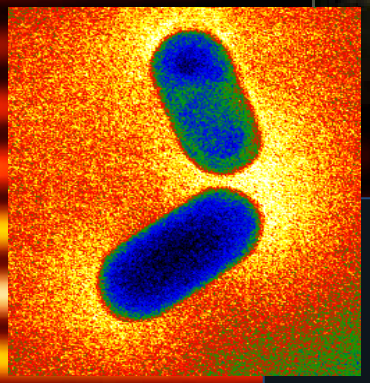
The Center for Photonic and Multiscale Nanomaterials (C-PHOM) is a National Science Foundation Materials Research Science and Engineering Center, established in 2011. The center's research activity is focused on two Interdisciplinary Research Groups (IRG's): wide-bandgap nanostructured materials for quantum light emitters and advanced electromagnetic metamaterials and near-field tools.

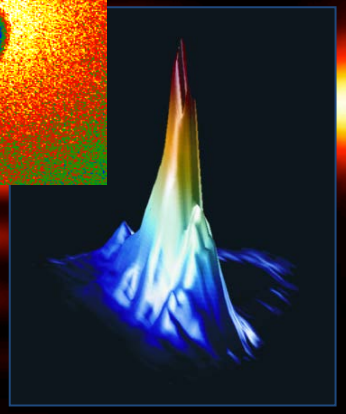


The center is housed primarily at the University of Michigan; the Metamaterials IRG is a partnership between the University of Michigan and Purdue University. Other participating institutions include the University of Texas at Austin, University of Illinois Urbana Champaign, Wayne State University, and City College of New York.









CENTER FOR PHOTONIC AND MULTISCALE NANOMATERIALS

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C-PHOM

Center for Photonic and Multiscale Nanomaterials

Research Experiences for Undergraduate & High School Students

Nanophotonics, Nanomaterials, Nanophysics

2017 Dates
Application Deadline: February 1
REU Program: June 4 - August 11
HS Program: June 18 – August 11

http://cphom.engin.umich.edu/

UNIVERSITY OF MICHIGAN

Supported by the National Science Foundation

REU Program

The C-PHOM REU program provides undergraduate students who are U.S. citizens or permanent residents with an opportunity to conduct ten weeks of summer research with faculty and students in the fields of nanophotonics, nanomaterials, and nanophysics. Opportunities are available in experiment, theory, and computation. Applicants are required to send transcripts and 2 letters of recommendation.

HS Program

The C-PHOM High School Research Program is a 10-month program that allows students to participate in research at the University of Michigan. The program begins in May, with orientation, training, and matching with lab groups. The 8-week residential component on the UM campus begins in June. During the Fall, participants will continue research with UM advisors, preparing presentations and papers for science fair competitions. The local, regional, and national science fair competitions take place early the following year.

Benefits & Rewards

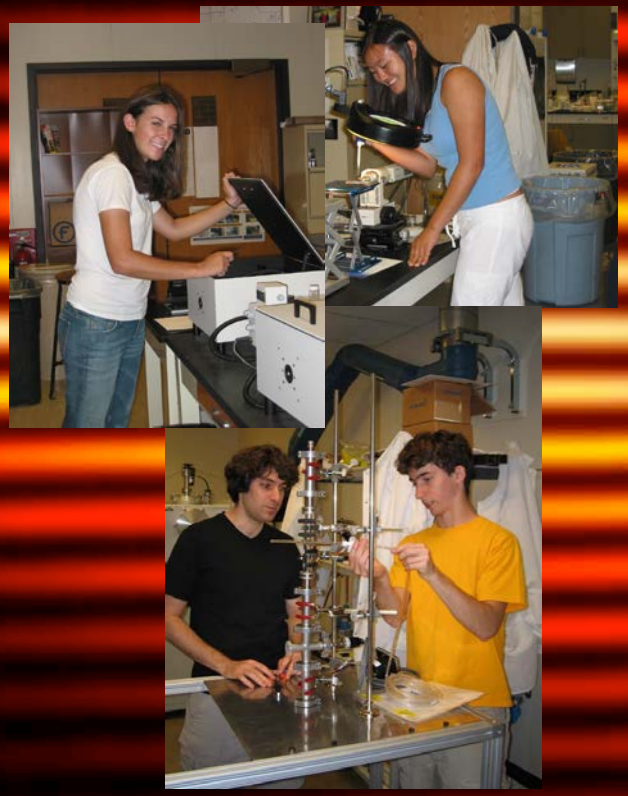
An intense and rewarding educational experience: Students will spend 35+ hours per week doing research under the guidance of a mentor. Students will participate in experimental, theoretical, and/or computational research in nanophotonics, nanomaterials, and/or nanophysics. Typically students will also attend weekly meetings of the research group and seminars by nationally and internationally recognized scholars visiting C-PHOM.

Community activities: The entire group of C-PHOM high school researchers will meet weekly for research and professional development seminars, laboratory tours, social events, and field trips to nearby national facilities.

Stipend: Students earn a stipend payable in several installments. REU students will earn a total of $4,500 during the summer. The High School students will earn a total of $2,800 over the course of the program including a payment after the Fall science fair submission.

Mentor: Every student is assigned a mentor who is a graduate student, post-doctoral fellow, or UM faculty member. This mentor will supervise the student's day-to-day work.

Friendship: Participation in a residential research program is a great way to get to know people with similar interests and aspirations.



Eligibility

Participants must be a U.S. citizen or Permanent resident with a GPA of 3.5 or higher. REU participants must be a rising junior or senior. HS participants must be at least 16 years old by the start of the program.