

Kimerling Group at MIT Challenge Organization Overview Script

Integrated photonics uses complex optical circuits that use light rather than electricity for high bandwidth applications such as data communications, RF signal processing, biosensing, and driverless technologies.

Prof. Lionel Kimerling is the Thomas Lord Professor of Materials Science and Engineering at the Massachusetts Institute of Technology in Cambridge, MA. Not only does Prof. Kimerling's Group perform research in the field of integrated photonics, it also has an education, workforce development, and roadmapping arm. The group brings cutting-edge knowledge for the design and manufacture of photonics integrated circuits to an audience ranging from elementary school students to industry professionals by offering education packages and programs, internships and summer learning opportunities, certification training, and more.

The Kimerling Group is building a roadmap to chart the transformative impact of integrated photonics, as the technology expands and extends the applications and successes of the electronics industry.