

## **FACTS ABOUT THE NEW INTEGRATED PHOTONICS INSTITUTE FOR MANUFACTURING INNOVATION**

On July 27, 2015, Vice President Biden announced that the Research Foundation for the State University of New York (RF SUNY) will lead a new Manufacturing Innovation Institute to secure U.S. leadership in manufacturing integrated photonics.

The National Photonics Initiative (NPI) and its supporting societies congratulate the New York-led consortium on their win, and remain strongly committed to the long-term success of the Integrated Photonics Institute for Manufacturing Innovation (IP-IMI). Since the IP-IMI selection process began in June 2014, we have worked to educate the photonics community about this historic opportunity and pledged our support to whichever consortium was ultimately selected by the DOD. We stand ready to help the IP-IMI, and by association work with the DOD, by leveraging the platforms, programs and resources of our scientific societies.

Here are the [top facts](#) the administration wants you to know about the IP-IMI:

- The IP-IMI is the sixth of nine such public-private partnerships to boost advanced manufacturing, foster American innovation, and attract and create jobs that strengthen the middle class.
- The consortium selected by the Department of Defense and led by RF SUNY includes 124 companies, nonprofits, and universities. Consortium members are located across the country, from California to Florida to Arizona to Massachusetts and many more.
- With a total investment of over \$610 million—\$110 million in federal funds, and more than \$500 million in non-federal contributions—the announcement marks the largest public-private commitment to date for the President’s National Network for Manufacturing Innovation (NNMI).
- Headquartered in Rochester, NY, the long-time home of optical technology pioneer Eastman Kodak, the new DOD led manufacturing institute will help spark new growth in manufacturing building on the area’s legacy of leading optical and photonics technology capabilities—and position the United States for continued leadership in this critical technology area.
- The institute will bridge advanced research and commercial product development, yielding critical defense and telecommunications advances—while also investing in education and workforce development to train and position the next generation of manufacturers in integrated photonics.
- The IP-IMI will work to develop lower-cost, higher-speed, and more efficient manufacturing processes for photonic circuits, by:
  - Developing an end-to-end photonics ‘ecosystem’ in the U.S., including domestic foundry access, integrated design tools, automated packaging, assembly and testing, and workforce development.

- Creating a standardized platform currently lacking in the integrated photonics space, making it easier to scale the technology across multiple markets and drive performance, cost, and scaling requirements.
- Assembling a world-class team of organizations from across the photonics industry, including leading manufacturers, material suppliers and software developers, government and academia.
- Pairing photonics companies (like Analog Photonics, Juniper Networks, and OptiPro) with key end users of integrated circuits (like Northrop Grumman for defense imagery and Hewlett Packard for high performance computing) and top research universities (like the University of Rochester, with its pioneering integrated circuitry labs, and the California Institute of Technology, with advanced lithography testing).