



PIXAPP is funded by the European Commission and was established in January 2017. The goal of PIXAPP is to support the transition of integrated photonic devices from prototypes to manufacture via pilot-scale production. PIXAPP is a distributed consortium of partners with a wide range of packaging technologies and capabilities, from the development of advanced photonic prototypes through to medium-volume commercial production. A key focus of PIXAPP is to establish a set of packaging design standards and related design rules which provides users with easy access to well-defined and qualified packaging technologies that are sufficiently flexible to address a wide range of markets, from communications to sensing and medical diagnostics. PIXAPP also provides advanced training to industry, including practical hands-on laboratory-based training using state-of-the-art equipment and training on advanced PIC design, test and reliability systems.

For more information on PIXAPP please see www.pixapp.eu.

ATHENA - PIXAPP Advanced Integrated Photonic Education Programme



Integrated photonics is an emerging disruptive technology with a sustainable multibillion-dollar-per-year commercial market expected to reach approximately 1 billion dollars by 2022. Due to the increasing number of companies specialized integrated photonics, it is expected that a large number of job opportunities will be created in this industry. Today, only PhD graduates have the practical skills in integrated photonics but as the technology gets mature there is a need in high specialized experts in integrated circuit design, fabrication, packaging and testing. Yet, integrated photonics remains a challenging discipline or unknown to a majority of undergraduate and graduate students in STEM.

It is therefore vital for academic institutions to bridge the gap between the growing integrated photonics job markets and their lagging numbers of Master and PhD graduates. It is very important to prepare and provide all possible educational tools to the next generation of integrated photonics specialists. Consequently, it is crucial to promote, attract and train undergraduate and graduate students in integrated photonics early in their college studies, especially in the academic institutions that do not have practical trainings in their programs or do not possess cleanroom facility.

We propose a Lecture Course on **Integrated Photonic Devices** to introduce Bachelor, Master and PhD Students to this world.

Course programme topics:

- Photonic Integrated Circuit (PIC) Building Blocks
- Packaging - Techniques and Procedures
- PIC Development, Optimization, Design and Fabrication
- Photonic Devices for Telecommunication and Sensing

Please contact Dr. Francesco Floris (francesco.floris@tyndall.ie) for any information about the next course, which is scheduled for February 2021.