The Centre for Advanced Photonics & Process Analysis (CAPPA) is a research centre of Cork Institute of Technology, conducting both applied and fundamental research on photonics for applications in areas as diverse as telecommunications, medical devices, food and pharmaceutical manufacturing. As part of the CIT@Tyndall partnership, several members of CAPPA are co-located in Tyndall National Institute, forming a group within Tyndall’s Photonics Centre. In Tyndall, CAPPA occupies three state-of-the-art labs, and major research strands include non-linear dynamics of lasers and tailored laser physics, and the understanding of the dynamics of novel semiconductor materials and devices.

Current research activities of CAPPA include:
- Swept-source lasers for Optical Coherence Tomography
- Optical characterisation of novel semiconductor materials and structures (including optical spectroscopy techniques such as Time-Resolved Photoluminescence and Pump-Probe Spectroscopy)
- Design and implementation of photonic sensors, e.g. for medical device and process monitoring applications
- Silicon nanophotonics and photonics crystals

CAPPA’s main website is located at [www.cappa.ie](http://www.cappa.ie), please visit this for more comprehensive information on CAPPA.

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