The Centre for Advanced Photonics and Electronics (CAPE) is a unique partnership between the University of Cambridge and international companies who are in a non-competitive supply-chain or value-chain relationship with respect to each other. CAPE was established in 2004, as a way in which the University could address global issues involving open innovation in partnership with companies of international importance. Founded upon the University’s world-leading facilities and expertise in electronics and photonics, CAPE is housed within the University’s Electrical Engineering Division although its activities involve many academic researchers beyond Cambridge University Engineering Department.

CAPE’s approach is to invent and develop through multidisciplinary research in strategic areas of interest covering all levels from materials, processes, components, and systems to customer expectation. We aim to define future strategy and market implementation and set the industry agendas for the convergence of photonic and electronic technology platforms.

CAPE delivers Technology from Science. Access world leading expertise in every branch of engineering and science at the University of Cambridge with the support of cutting edge R&D facilities in the Electrical Engineering Division

CAPE promotes Open Innovation through its Partnership. Operating under the CAPE Partnership Agreement (CPA), we are trusted by global companies to convert thought leadership to industrial applications.

CAPE creates Business Opportunities and Future Vision. CAPE Partners engagement provides a unique opportunity enabling us to make a greater impact on society and further enhance the business value of our enterprises

CAPE looks forward to an exciting future building on past success with increased synergy between CAPE Partners and an enhanced vision for technology invention, business creation and outreach impact. CAPE always welcomes the participation of new industry partners who look to leverage our expertise and at the same time provide a synergistic fit with our existing partners. Established for over 15 years, CAPE has a record of successful technology development within a robust model for university-industry collaboration. Contact us to explore ways to work with us
Advantages of working with CAPE

**Technology from science**
- Work with world-leading scientists and engineers to develop innovative science into practical solutions that can be applied by your company
- Jointly commission research for the benefit of the CAPE Partners with direct control through representation on the CAPE Steering Committee
- Cutting-edge R&D facilities within the Electrical Engineering division

**Established governance structure**
- Management of CAPE is by the Steering Committee with equal voting rights for the CAPE Partners and the University
- The CAPE Partnership Agreement (CPA) provides fair IP terms agreed between the University and CAPE partner
- Our pre-determined terms and conditions allow for fast project approval
- The CAPE Office provides dedicated support to partner projects and interests

**Partnerships**
- The CAPE Partners have non-competitive market positions by design, so there are potential business opportunities between partners with a mutual interest in exploiting a technology.

**Gateway to Cambridge**
- CAPE is a gateway to all areas of the University of Cambridge, including researchers in the Department of Engineering, Cavendish Laboratory, The Computer Lab, Chemistry Department, Materials Science and others
- Research themes covered by CAPE researchers include AI, Batteries, Big Data, Energy, Healthcare, Graphene, Sensors, etc.
- CAPE’s track record has established its reputation among academics and the wider University, facilitating good collaborations with CAPE Partners

**Other benefits**
- Exchange scientists and engineers between industrial and academic partners, through our embedded researcher scheme
- Expand CAPE projects by leveraging the industrial funds invested through CAPE via external sponsors such as the UK government
- Membership of CAPE provides networking benefits from existing links between the University of Cambridge and other academic centres, in both the UK and elsewhere

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CAPE in the news

A ‘no-touch touchscreen’ developed by CAPE and Jaguar Land Rover for use in cars could also have widespread applications in a post-COVID-19 world, by reducing the risk of transmission of pathogens on surfaces.

Researchers at CAPE in collaboration with Huawei have developed a new augmented reality (AR) head-mounted display (HMD) that delivers a realistic 3D viewing experience, without the commonly associated side effects of nausea or eye strain.

CAPE researchers and Jaguar Land Rover are developing a powerful new 3D head-up display to project safety alerts, such as lane departure, hazard detection, sat nav directions, and to reduce the effect of poor visibility in poor weather or light conditions.

Disney Research in California has teamed up with CAPE to investigate the prospect of constructing future 3D displays based on multiplexing orbital angular momentum

For more details visit: www.cape.eng.cam.ac.uk/news