

TUESDAY 28TH APRIL 2020

## Photocentric granted funding in the Advanced Propulsion Centre's fourth wave of the Technology Developer Accelerator Programme

Peterborough based innovator and specialist 3D printer manufacturer, Photocentric, is one of the 14 SMEs to receive grant funding from The Advanced Propulsion Centre (APC), for their pioneering work in developing the next generation of low-carbon technologies to significantly reduce vehicle emissions.

Playing a crucial role in the low-carbon future of the automotive industry, Photocentric secured the funding for their innovative project of using additive manufacturing techniques to create a process that enables the custom mass manufacture of batteries with optimized geometries. The process will initially focus on the design of 3-dimensional electrodes for solid state batteries and their fabrication using LCD screen 3d printing. Developing a method of fabricating electrodes with a 3-dimensional structure, will enable batteries with higher energy densities for the potential use in electric vehicles.

TDAP Manager from the Advanced Propulsion Centre, Josh Denne said:

*"We are delighted to be working with Photocentric as part of our Technology Developer Accelerator Programme (TDAP). At the APC we are committed to working with micro, small and medium organisations developing innovative low-carbon technologies. Companies such as Photocentric play a crucial role in the automotive industry's net zero carbon future. By supporting them at the beginning of their journey we hope to ensure their innovative technology becomes commercially viable."*

### About the Advanced Propulsion Centre:

The Advanced Propulsion Centre (APC) accelerates the industrialisation of technologies which will help to realise net-zero emission vehicles. It is at the heart of the UK government's commitment to end the country's contribution to global warming by 2050.

Since its foundation in 2013, APC has funded over 110 low-carbon projects, involving more than 290 partners. The technologies developed in these projects are projected to save over 179 million tonnes of CO<sub>2</sub>, the equivalent of removing the lifetime emissions from 6.5 million cars.

APC projects have helped generate economic benefits too. Companies involved have seen turnover increases of 14–17%, with new jobs increasing by 8–10%. Together these have generated a 17% Gross Value Added uplift.

With its deep sector expertise and cutting-edge knowledge of new propulsion technologies, APC's role in building and advising project consortia helps projects start more quickly and deliver more value. In the longer term, its work to drive innovation and encourage collaboration is building the foundations for a successful UK industry.

For more information go to [apcuk.co.uk](http://apcuk.co.uk) or follow us @theapcuk on Twitter and Advanced Propulsion Centre UK on LinkedIn.

### About Photocentric:

Since 2002, Photocentric have been manufacturing photopolymer resin and are patent holders in visible light curing technologies. Over the last 20 years they have innovated in a broad range of applications including office stamps, crystal clear polymer craft stamps and more recently – 3D printing. They applied their understanding of photopolymerization to the visible light part of the spectrum, to unlock the powers of using widely available, high resolution LCD screens in 3D printers. Working with their patented daylight curing process, they invented the use of LCD screens as the selective light source for a 3D printer; a technology today that is disruptive to additive manufacturing.

Driving their LCD developments is their vision - to enable custom mass manufacture. They enable their vision through providing disruptive, fast and large format machines and compatible functional materials. These have been developed for a range of applications, one strong one is dentistry, particularly that of aligner manufacture. Their LC Magna printer enables orthodontists and other dental professionals to batch produce patient specific arches for thermoforming aligners in volume; at a cost, speed and scale previously unknown. Other sectors Photocentric provide solutions for include the entertainment, industrial and figurine industries.

## Press Contact:

Name: Roxanne Ellison

Email: [roxanne.ellison@photocentric.co.uk](mailto:roxanne.ellison@photocentric.co.uk)

Phone: 01733 349937