Innovate UK

Results of Competition: North Wales Photonics Launchpad
Competition Code: 1602_LP_ETECH_I_PHOT

Total available funding for this competition was £500K from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
ICAM Engineering Ltd	Supporting Technology for the Improvement of Sold State Photonics Devices	£89,968	£62,978

Project description - provided by applicants

With the increasing performance of solid state lighting and photonic technologies enabling rapid consumer improvements from high quality, low power domestic lighting to dazzling social media devices the pressures on photonic materials producers have reached extreme levels. A major component of continual high end technology progression is the ability to produce better and better solid state base materials, unfortunatlely this is reaching a limitation due to the capability of the production systems. Working with technology producers we have developed concept technology that will allow manufacturers to keep pushing the boundaries of their materials technologies. Our innovation focuses on improving the maintenance of manufactuing equipment by adding ancillary equipment, reducing the cost of ownership of production equipment while improving the performance of the end product. By adding a chemical process in conjunction with new hardware we can enable optoelectronic device producers achive new levels in their end products.

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Zeeko Ltd	Customised Mass-Production through Autonomous Manufacturing	£87,290	£61,103

Project description - provided by applicants

Polishing of precision surfaces such as lenses and mirrors requires a rubbing action, rather than 'cutting' as with a grinding machine or lathe. Such lens or mirror surfaces, and particularly complex surfaces, are required for a huge range of modern products, ranging from digital and phone cameras, to LED lighting, to advanced defence and space systems. Modern computer controlled polishing machines move a polishing tool over the surface of the component, and the path is programmed to remove just the right amount of material at each place to correct height-errors measured in the surface. This assumes that the action of the polishing tool is truly predictable. In reality, the predicatability falls well short of the ideal, and this means that several (or indeed many) cycles of polish => measure => polish are required to meet the requirements. This project proposes to measure some key effects before and during the polishing process ,and also characterise the tooling itself, in order to improve overall predicability. This promises significant reductions in polishing time and so cost

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Compass Optics Ltd	Compass Optics	£55,893	£39,125
Project description - provided by applicants			
Compass Optics Ltd. is a high technology start-up based in Anglesey, North Wales. Compass Optics is developing world-beating instrumentation for the measurement of large optical surfaces. This technology will be crucial to the production of the large mirrors and lenses that will make up the next generation of extremely large optical telescopes. It will also be applicable to the production of laser based fusion reactors that may, in the coming decades, help to solve the looming world energy crisis.			

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Innovate UK

Results of Competition: **North Wales Photonics Launchpad**
Competition Code: **1602_LP_ETECH_I_PHOT**

Total available funding for this competition was £500K from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Camstech Ltd	Novel Surface Plasmon Resonance Sensor	£51,635	£36,145
Project description - provided by applicants			
The objective of the project is to improve the performance and reduce the cost of a Surface Plasmon Resonance instrument and consumables by developing a novel SPR sensor.			

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Innovate UK

Results of Competition: North Wales Photonics Launchpad
Competition Code: 1602_LP_ETECH_I_PHOT

Total available funding for this competition was £500K from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Mathcyf Cyf	Computational Simulation Tools and Environment for Optimising the Manufacture of Ultra-precision Surfaces	£73,098	£51,169
Project description - provided by applicants			
The objective of this project is to create a quantitative simulation tool and associated software environment forimproving manufacturing processes used for the fabrication of ultra-precision surfaces, with particularapplication to the manufacture of optics.Specifically, we identify the use of physically-based, mathematically consistent and quantitative process modelsto offer significant market advantages in the efficient manufacture of complex optics and other ultra-precisionsurfaces. We have the opportunity to take a sector-leading role in the optimisation of such processes for opticalfabrication.We propose to develop a set of innovative software methods for numerically simulating the effects of fabricationprocesses with a view to enabling the design of process improvement programmes with the minimum of shop-floor intervention and with improved predictability.			

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