



Llywodraeth Cymru
Welsh Government

Senior Flexonics

Crumlin-based engineering firm Senior Flexonics developed an Exhaust Gas Recirculation Cooler and was supported in keeping operations and jobs in the UK with the help of Welsh Government innovation support.

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This shift in emphasis has also been important in ensuring the company's jobs remain in the UK. In order to reach new markets and compete globally, Senior Flexonics moved all of its manufacturing operations overseas in mid-2015, but following innovation and development success, the company decided that its sales and engineering divisions will remain in the UK.

Since 2008, Senior Flexonics had been under pressure to make a cheaper, smaller, yet more efficient Exhaust Gas Recirculation (EGR) Cooler. The company was able to patent and produce its new EGR cooler by February 2014 thanks in part to innovation funding backed by EU funds.

An EGR cooler uses engine coolant to lower exhaust gas temperatures before recirculating them throughout the intake system of an engine. Decreasing the engine combustion temperature helps stop several different types of pollutants from forming.

The need to develop a new EGR cooler was driven largely by customer demand, as there was concern Senior would not win

major new contracts due to the cost and technical limitations of its previous design.

The funding was not only important in helping to secure a crucial patent for the EGR cooler, but in generating the component itself. It also contributed to attitudinal changes within the organisation which have placed greater emphasis on innovation and R&D, as well as higher awareness of other channels and options for funding.

Senior Flexonics Product Development Director, Charlie Penny, said: "The innovation funding helped us patent and generate a key EGR cooler component, which may not have been possible to do without it. The more you are able to show head office about patents and innovation, the more you can build a case for keeping jobs in the UK."



To find out more about funding and support from the Welsh Government:

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innovation