

Partners



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Innovate UK

GRAPHOSITE is an
Innovate UK Project
Ref: 104266

Innovate UK is the UK's innovation agency. It works with people, companies and partner organisations to find and drive the science and technology innovations that will grow the UK economy.



A Graphene Sensor for Defect Detection and Predictive Maintenance in Composite Materials

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Project Overview

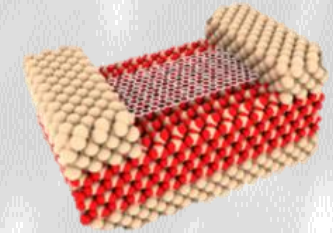
The **GRAPHOSITE** is a project funded by **Innovate UK** (reference 104266) which started in August 2018, it will run until April 2021.

GRAPHOSITE offers a technological solution that addresses a significant challenge to composite materials – defect detection. It aims to apply graphene to a customised substrate to achieve enhanced defect sensing and predictive maintenance with increased sensitivity. The sensor will be embedded with the composite during manufacturing and will have high flexibility properties. A unique feature of the novel technology is that graphene will serve as the sensing element and act as the gate through which the electric current passes. Being an embedded part of the composite at manufacture, condition monitoring will therefore be continuous and in real-time.

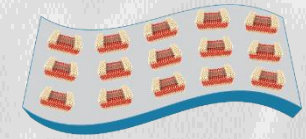


Project Objectives

Graphene Sensor Development



Graphene Sensor on the composite structure



Final testing of end product

Route to market

