

# Altered Carbon

Developing new sensor technologies.

## Challenge

There is an ever-growing demand for highly selective biosensors to detect numerous types of potentially detrimental gases at minute concentrations (as low as parts per billion), within various environments. Areas of application for these sensors are plentiful and are needed on a global scale. They include agriculture, chemical industry, health-care, food freshness/storage and air quality, to name just a few. This is where Altered Carbon comes in!

## Solution

The team at Altered Carbon have worked together tirelessly, drawing on each individual's area of expertise, to formulate a unique solution. A combination of Real-Time graphene-based sensing with data feedback using an AI-embedded platform to relay tailored datasets. The sensors run from super low power source, all of which provides longevity, accuracy and ultimately, a cost effective product.

## HTH Contribution

The Health Tech Hub helped to create a way of analysing the quality of the graphene that Altered Carbon receive from their supplier. Consistency is paramount to the production of these products and so testing large batches of the material is very important to have quality assurance in place before sensor product is produced. The HTH also worked to create a grading scale for graphene quality which Altered Carbon use.

*“The Health Tech Hub lab space is of great value to us because it's highly advanced, with a wide range of cutting-edge equipment.*

*Working with the HTH, we're able to run checks and to develop our product without worrying so much about extortionate development fees. The HTH also has a strong network, and can help to expose your business to new opportunities”*

Ali Rohafza

Founder of *Altered Carbon*

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