The ESA Business Incubation Centre in Harwell, UK, started its operations in 2011 and is managed by the Science and Technology Facilities Council (STFC). It is located at Harwell Campus, a world leading science, technology and business campus based in South Oxfordshire with more than 4,500 researchers, engineers and innovators from over 150 high-tech organisations, and a focal point and cluster for the UK's rapidly growing high-tech space community.

Oxford Micro Medical Ltd

Oxford Micro Medical have designed an innovative detector for a specific type of stomach cancer.

Website

Founded in 2012 by

- **Phil Prewett**
- **Ejaz Huq**

Incubation period

01-02-2013 to 30-11-2015

Alumni

About Oxford Micro Medical Ltd

Oxford Micro Medical Ltd is an STFC spin-out company created in 2011. The company utilises technology originally stimulated by the Rosetta Space Mission to develop a novel mass spectrometer for healthcare applications.

Contact info

-
  - Rutherford Appleton Laboratory, Fermi Avenue
  - OX11 0QX
  - Harwell
  - UK
- p.d.prewett@gmail.com
- +44 7803 618920

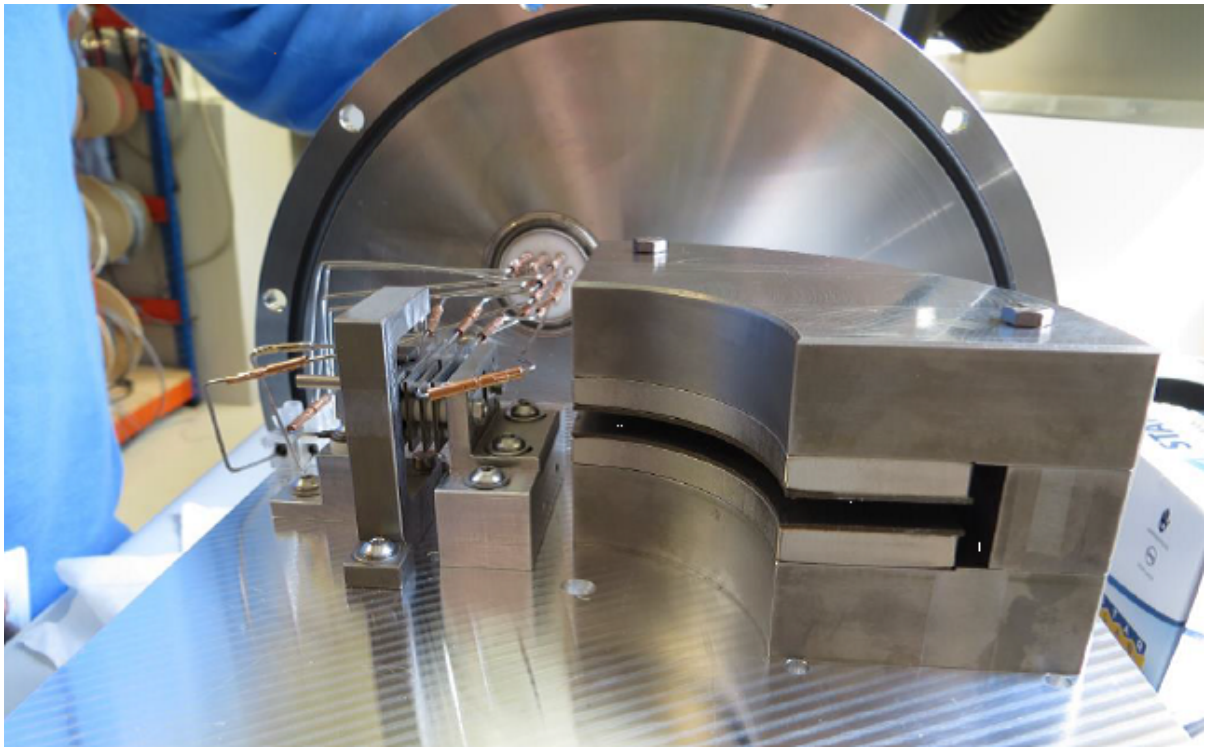
The challenge

Oxford Micro Medical is developing an innovative technology for the detection of

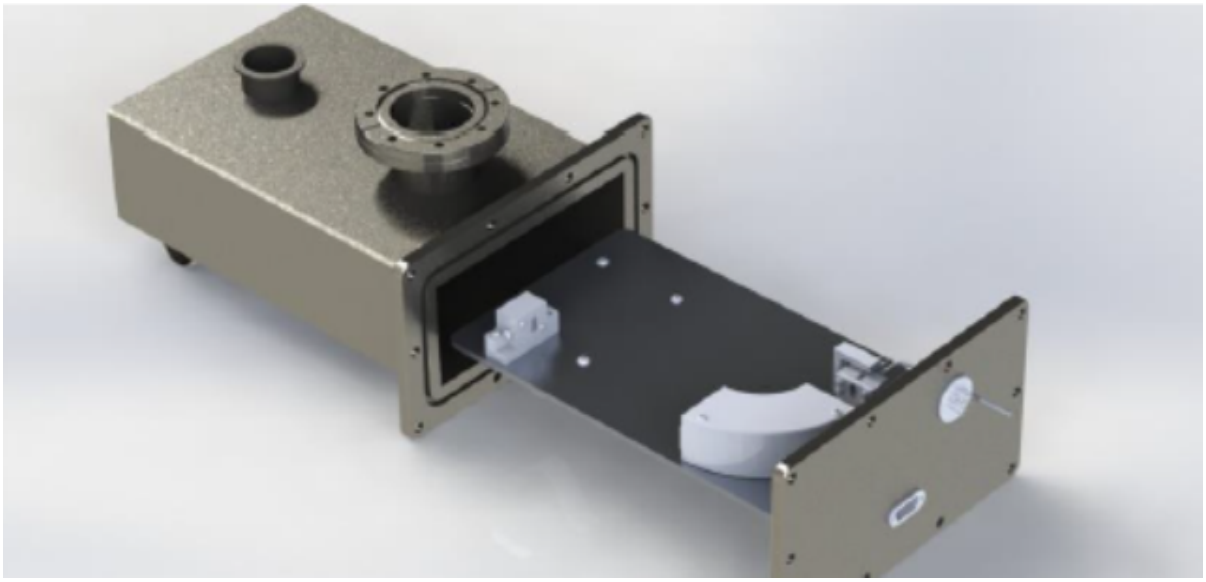
helicobacter pylori - a stomach infection that links to cancer. As this potentially life-threatening disease is more prominent in developing countries, Oxford Micro Medical are using the precision workshops at the Space Science facility at Harwell to develop a cheap, portable device that can be carried to remote areas.

The solution

Oxford Micro Medical is developing an innovative technology for the detection of helicobacter pylori - a stomach infection that links to cancer. The inclusion of electrodes within the detector ionises the breath. The properties of the ion, namely it’s mass and charge, influences how much it bends when deflected by a magnet, allowing easy analysis of the breath leading to possible detection of this illness. As this potentially life threatening disease is more prominent in developing countries, Oxford Micro Medical are using the precision workshops at Space Science facility at Harwell to develop a cheap, portable device that can be carried to remote areas. In the longer term Oxford Micro Medical hopes to further their research in disease diagnostics.

- 

Pre-production prototype NanoBreath™ mass discriminator breath test system

- 

Schematic of miniaturized production prototype NanoBreath™ under development

---