

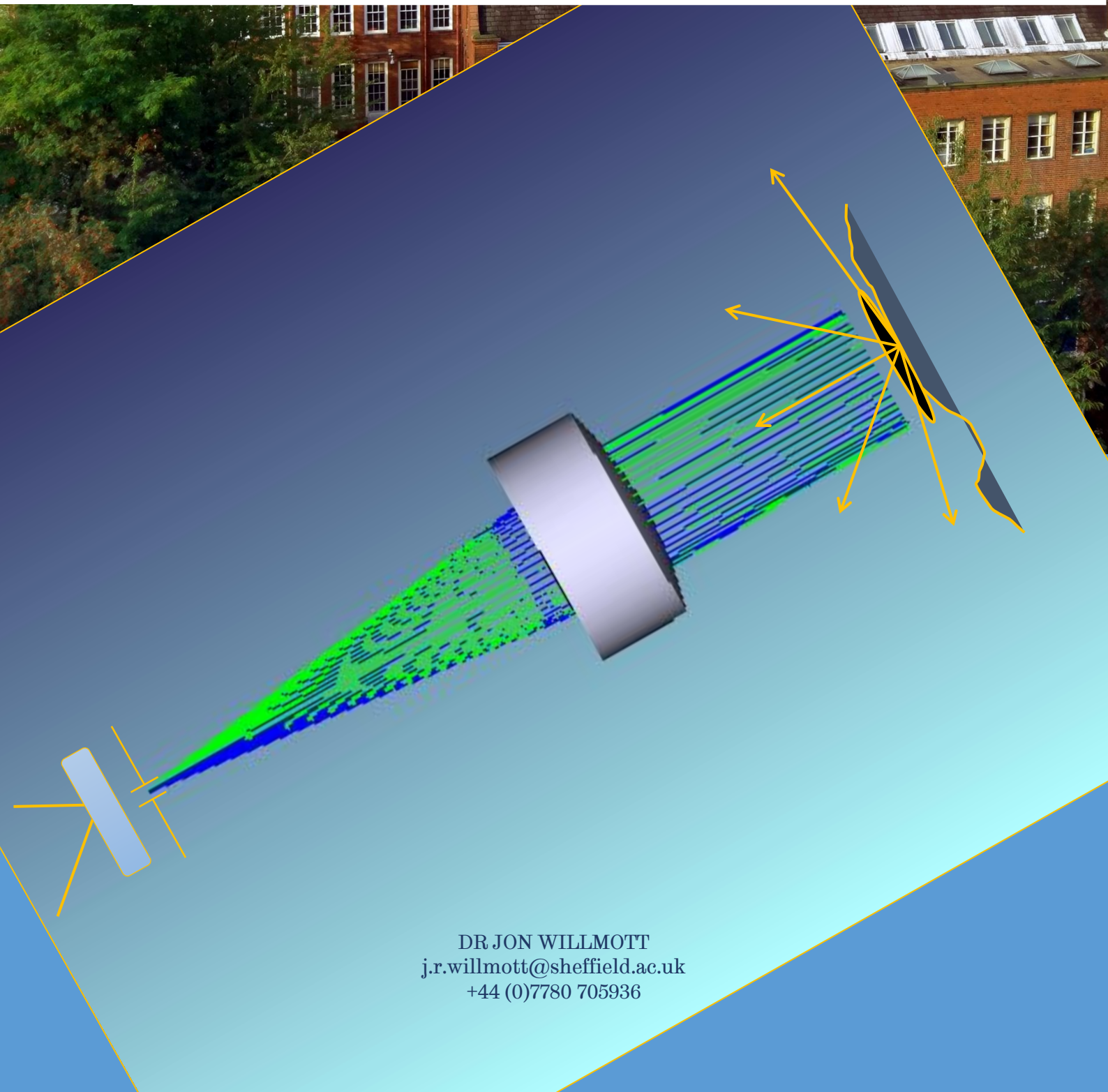


The
University
Of
Sheffield.



Sensor Systems Research Group

Department of Electronic and Electrical Engineering



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EXPERTISE + CAPABILITIES

Founded in 2015 with a £1m investment from the UK Engineering and Physical Sciences Research Council, the Sensor Systems Research Group provides research and engineering services to industry and academia. Our expertise was founded in temperature science and infrared instrumentation.

Experience

- Radiometry
- Imaging systems
- Temperature science
- Single pixel imaging
- Aerosol printed electronics
- Liquid crystal science
- Spectroscopy
- Sensing in manufacturing processes

Research Capabilities

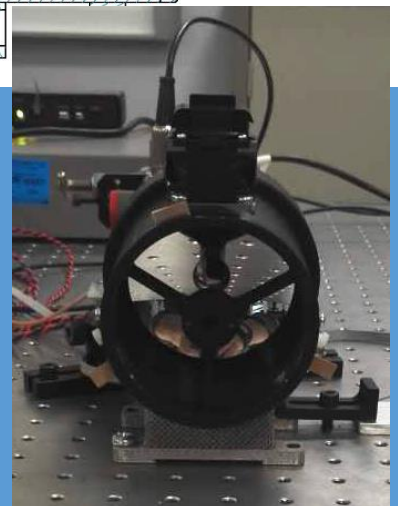
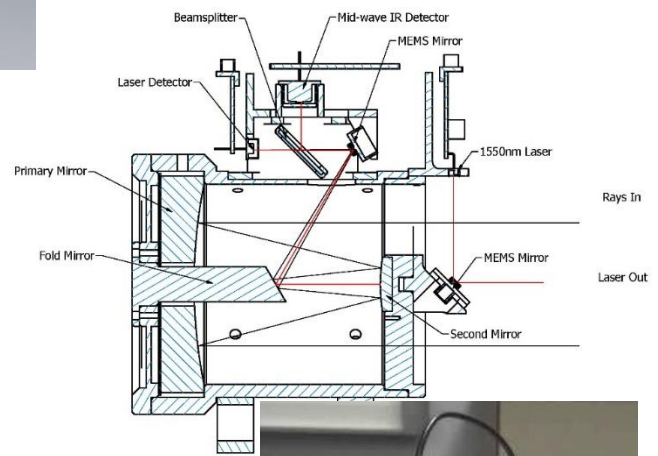
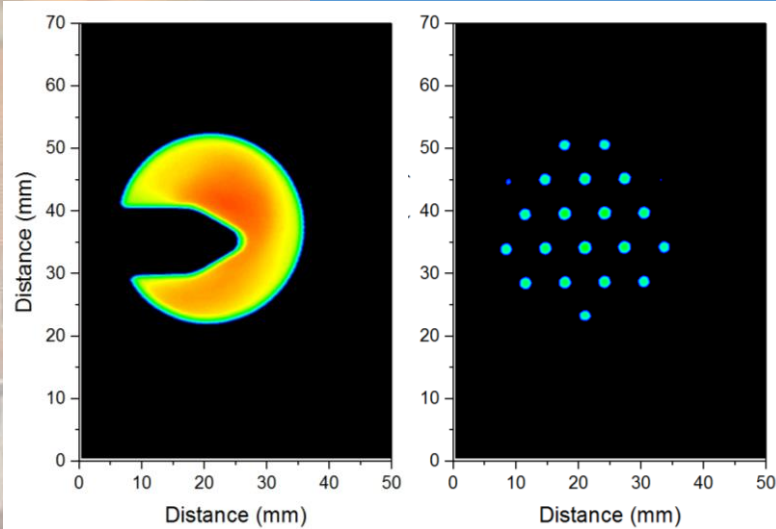
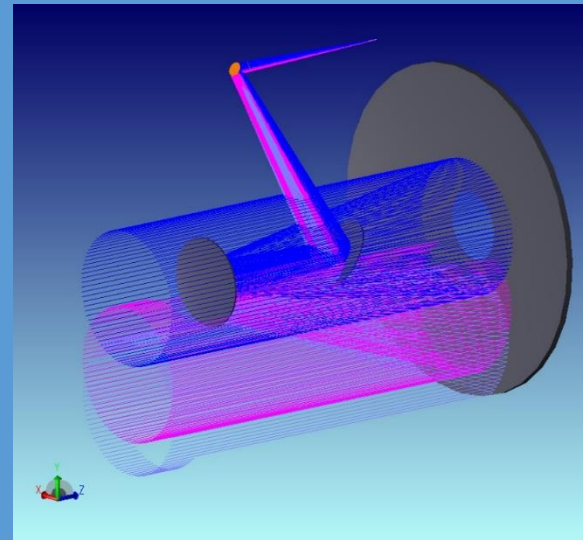
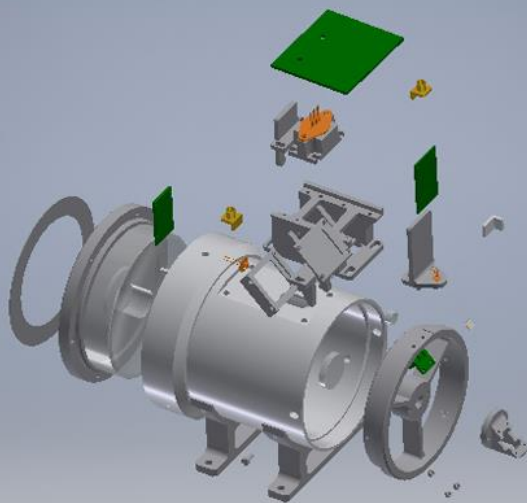
- Low uncertainty temperature measurement
- Ultra-sensitive detection
- Multi-wavelength algorithms
- Emissivity measurements
- Thermal metrology

Engineering Capabilities

- Project Management
- Electronic circuit design
 - PCB design
- Optical System Design
 - Fibreoptics
- Software Engineering
- Infrared and temperature

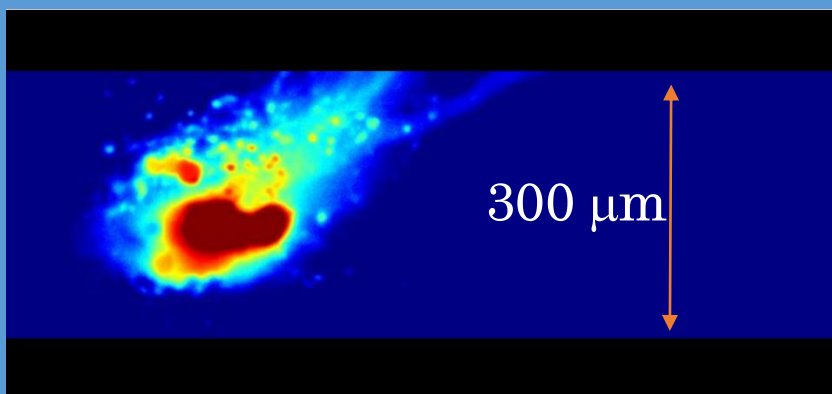
CASE STUDY: Industry

The SSG was awarded an MOD contract to develop a lightweight optoelectronic telescope capable of making both thermal images and laser ranging (LiDAR) in the same instrument.



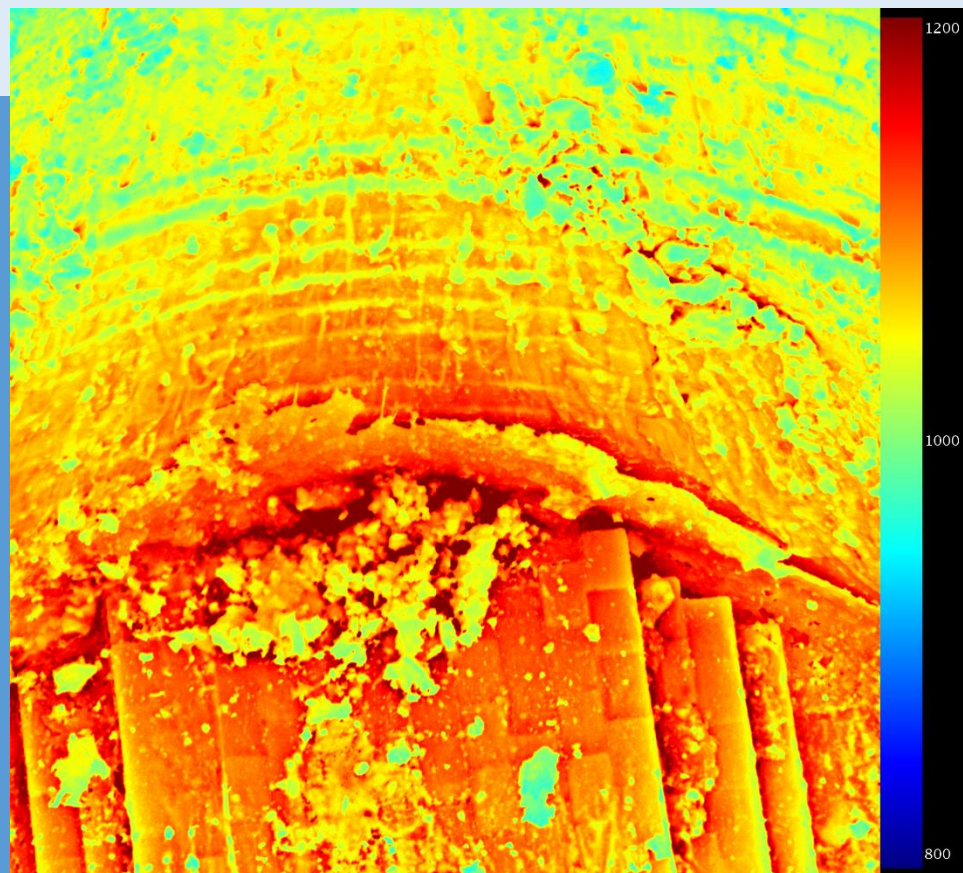
CASE STUDY: Research

In addition to the boroscope described in our optics brochure, we designed and built a 1000 frame per second, 4-megapixel thermal imaging microscope-like camera for comparison with computational models of additive manufacturing.



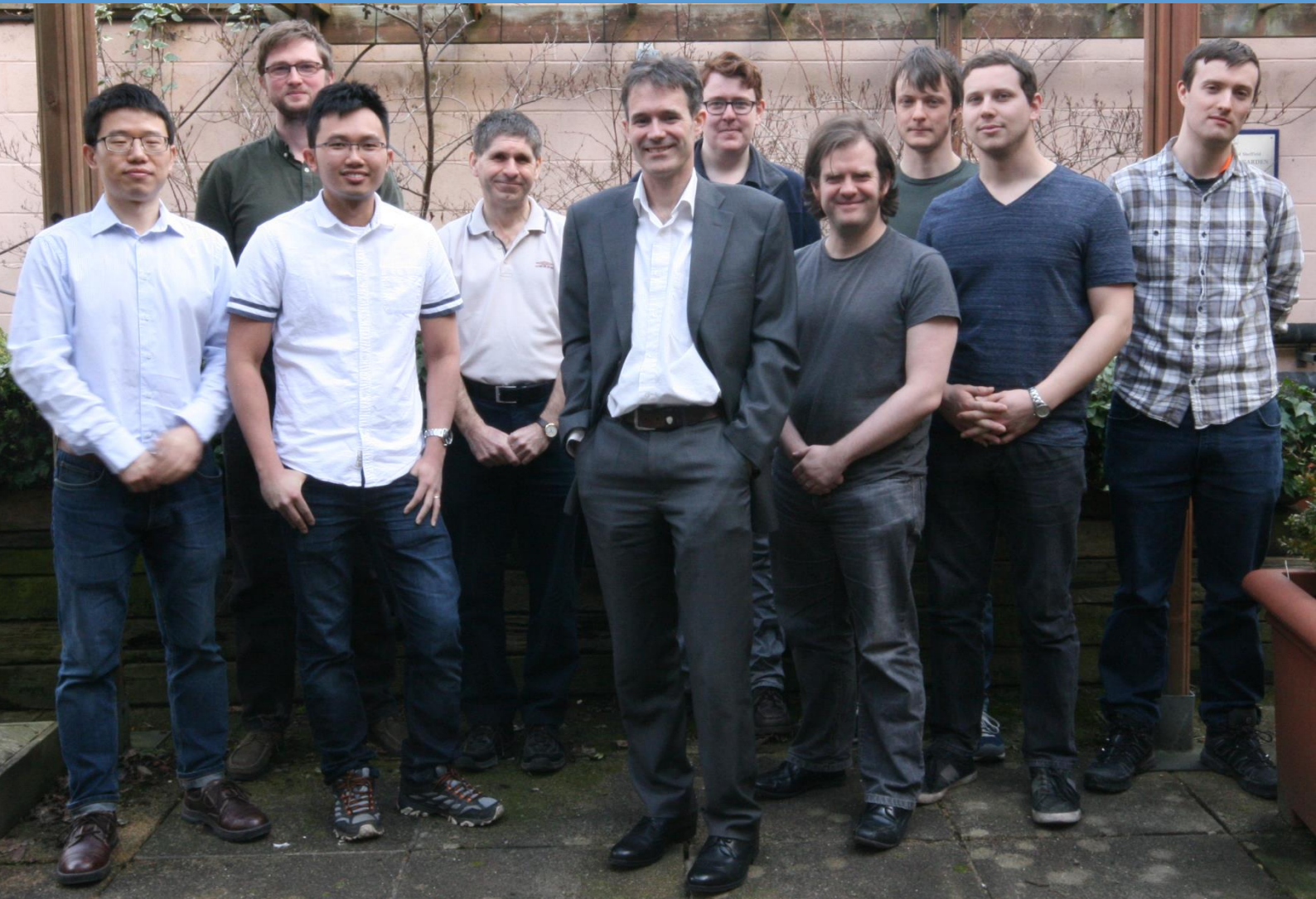
TEMPERATURE RESEARCH: How can we improve your temperature measurement?

- Understanding the thermal behaviour of your processes or product
- Developing thermal imaging systems specific to your requirements
- Provide high resolution images and radiometric temperature measurements



MEET THE TEAM

From left to right: Todd Zhu, Leigh Stanger, Cheong, Andy Heeley, Jon Willmott, Matt Davies, Matthew Hobbs, Nick Boone, Matt Grainger, Tom Rockett.



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