

**Dr Robert H Hadfield, Lecturer in Physics and Royal Society University Research Fellow**



The focus of my research is a new type of high speed, low noise infrared single-photon detector based on a superconducting nanowire. This detector is a key enabling technology for a host of applications at the frontiers of science, from optical quantum information processing to medical imaging. I aim to improve the performance of these detectors and to implement them into practical photon-counting systems.

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URL

<http://www.phy.hw.ac.uk/resrev/SuperconductingDetectors.htm>

Work Groups

Biophotonics	<input type="checkbox"/>
Integrated Photonics	<input type="checkbox"/>
Solar Cell Devices	<input type="checkbox"/>
Solid State laser Engineering	<input type="checkbox"/>
Photonic Sensors	<input checked="" type="checkbox"/>

