

## QuTeE - Quantum Technologies and Engineering

Mon, 2015-06-15 12:21 - [Frank C Langbein](#) [1] **Website:**  
<https://qutee.org/> [2]

**Research Type:** Theory

QuTeE - Quantum Technologies and Engineering focuses on modelling and control techniques to engineer quantum devices and processes. We work on techniques to design, control and optimise the behaviour of quantum processes based on methods to model and simulate quantum systems, characterise their behaviour by parameter and model learning, and visualise and analyse measurement signals. Particular application areas we pursue are related to spin dynamics, quantum spin networks, magnetic resonance imaging and spectroscopy, spintronics and semiconductor devices, and chemical synthesis.

**Leader:** Frank Langbein

### Location

Cardiff University 5 The Parade  
Cardiff CF24 3AA United Kingdom  
51° 29' 5.1324" N, 3° 10' 10.6536" W  
See map: [Google Maps](#) [3]

- [Quantum Control](#) [4]

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### Links:

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[2] <https://qutee.org/>

[3] <http://maps.google.co.uk?q=5+The+Parade%2C+Cardiff%2C+CF24+3AA%2C+uk>

[4] <http://qurope.eu/category/virtual-facility/quantum-control>