

# David Cardwell

**David A. Cardwell**, FREng, is a British superconducting engineer.<sup>[1]</sup> He is a professor of superconducting engineering, Pro-Vice-Chancellor for Strategy and Planning at the University of Cambridge, former head of the University of Cambridge Department of Engineering, co-director of the KACST-Cambridge Research Centre and a fellow of Fitzwilliam College.<sup>[2]</sup> In 2012, Cardwell was elected as a fellow of the Royal Academy of Engineering.<sup>[3]</sup>

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## Education

Cardwell studied at the University of Warwick (BSc 1983, PhD 1987).<sup>[2]</sup> He is a fellow of the Institute of Physics and the Institution of Engineering and Technology.<sup>[2]</sup>

## Degrees

- DSc, Warwick University, 2015
- ScD, University of Cambridge, 2014
- MA, University of Cambridge, 1995
- PhD, Warwick University, 1987
- BSc, Warwick University, 1983<sup>[4]</sup>

## Research interests

### Professor David Cardwell FREng



<b>Nationality</b>	British
<b>Education</b>	University of Warwick
<b>Alma mater</b>	Fitzwilliam College, Cambridge
<b>Awards</b>	FREng (2012)
<b>Scientific career</b>	
<b>Fields</b>	Superconducting engineering
<b>Institutions</b>	University of Cambridge
<b>Website</b>	bulk-sucon.eng.cam.ac.uk/dc135/ ( <a href="http://bulk-sucon.eng.cam.ac.uk/dc135/">http://bulk-sucon.eng.cam.ac.uk/dc135/</a> )

Professor Cardwell's research interests include the processing, modelling and characterisation of bulk superconductors for high-field engineering applications. Materials of particular interest include high-temperature superconductors within the (RE)BCO family and MgB<sub>2</sub>.<sup>[5]</sup> He has authored or co-authored more than 370 published papers.<sup>[6]</sup>

## Current positions

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- Pro-Vice-Chancellor (Strategy & Planning)
- Co-director of the KACST-Cambridge Research Centre
- Treasurer of the European Society for Applied Superconductivity
- Member of the Advisory Board of Superconductor Science and Technology

## Distinctions

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- Fellow of the Royal Academy of Engineering
- Fellow of the Institute of Physics
- Fellow of the IET<sup>[2]</sup>

## Prizes

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- The Society of Automotive Engineering (SAE) Arch T. Colwell Merit Award, 2008<sup>[7]</sup>
- PASREG prize for excellence in the processing of bulk superconductors, 2001<sup>[8]</sup>

## See also

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- University of Cambridge
- High-temperature superconductivity

## References

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1. BBC (2010). "Today: Friday 9th July" ([http://news.bbc.co.uk/today/hi/today/newsid\\_8803000/8803020.stm](http://news.bbc.co.uk/today/hi/today/newsid_8803000/8803020.stm)). Retrieved 12 December 2014.
2. University of Cambridge (2014). "Prof. David Cardwell FEng" ([http://www-g.eng.cam.ac.uk/bulk\\_sucon/dc135/](http://www-g.eng.cam.ac.uk/bulk_sucon/dc135/)). Retrieved 12 December 2014.
3. Royal Academy of Engineering (2012). "List of Fellows - Cardwell, Professor David FEng" (<http://www.raeng.org.uk/about-us/people-council-committees/the-fellowship/list-of-fellows?q=cardwell>). Retrieved 12 December 2014.
4. <http://bulk-sucon.eng.cam.ac.uk/dc135/>
5. University of Cambridge (2015). "David Cardwell Department of Engineering" (<http://www.eng.cam.ac.uk/profiles/dc135>). Retrieved 19 March 2015.
6. [http://www3.eng.cam.ac.uk/research\\_db/publications/dc135](http://www3.eng.cam.ac.uk/research_db/publications/dc135)
7. <http://www.engii.org/scet2013/ShowOrganizerDetails.aspx?personID=2152>
8. [http://www2.warwick.ac.uk/newsandevents/pressreleases/ballet\\_opera\\_tv/](http://www2.warwick.ac.uk/newsandevents/pressreleases/ballet_opera_tv/)

## External links

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- University of Cambridge (<http://www.cam.ac.uk>)

- [University of Cambridge Department of Engineering \(http://www.eng.cam.ac.uk\)](http://www.eng.cam.ac.uk)
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