

Steve Bullock

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Education

- 2017 **PhD Dynamics and Control**, *University of Bristol*, UK.
Thesis: *Multi-Body Control for Automated Aerial Refuelling*
- 2007 **Qualified Teacher Status (QTS)**, *Teach First*, UK.
Science with Physics specialism
- 2006 **MEng (Hons) Aeronautical Engineering**, *University of Bristol*, UK, 2:1.
Dissertation: *Development of a Micro-Unmanned Aerial Vehicle*

Work

- 2018-date **Programme Director, Aerospace Engineering**, *University of Bristol*, UK.
Leading development and quality assurance of undergraduate aerospace programmes.
- School-wide first-year review;
 - Quality and impact assurance in changing external environment, including new *Teaching Excellence Framework*;
- 2015-date **Widening Participation Lead, Faculty of Engineering**, *University of Bristol*, UK.
Recruitment, admission, and progression of diverse students across the Faculty.
- Strategy setting, impact measurement, allocation of £20k+ budget.
 - Developed *Pathways to Engineering* college partnership entry route, and *Transition Maths* in-year support programme.
- 2010-date **Teaching Fellow, Aerospace Engineering**, *University of Bristol*, UK.
Direct teaching and strategic development responsibilities.
- Teaching across a range of units, implementing flipped-classroom and other innovative approaches;
 - Direct development, external tender, and cross-Faculty support for widely-used digital resources including new *Dynamic Lab Manual*, alongside physical and logistical restructuring of Engineering lab teaching (£400k+ multi-year project).
- 2009-2010 **Head of Science**, *King Solomon Academy*, London, UK.
Founded a new school with engaging and inspirational colleagues in challenging area.
- Set up and led Science department curriculum, resources and programme;
 - Graded outstanding by Ofsted before end of first term.
- 2007-2009 **Head of Physics**, *Wembley High Technology College*, London, UK.
Trained and placed through intensive Teach First programme.
- Tripled KS5 Physics applications, implemented whole-school e-learning system, transformed rigour and ambition of KS4 BTEC Science programme.
- 2006-2007 **Science Teacher**, *Wembley High Technology College*, London, UK.
Trained through intensive Teach First programme, #3 *Times* top graduate employer.

2006-date **Educational Consultant.**

Wide range of Science- and Engineering-focused freelance projects, including:

- Print, web and film-based resource development and consultation for clients including Google, BP, EDF, RNLI, Land Rover Ben Ainslie Racing;
- Work with Land Rover BAR *STEM Crew* awarded 2018 *EdTech Top 50*;
- Preliminary and semi-final judge for Google Global Science Fair 2011-2019;

Additional roles

2010-date **Committees and Advisory Groups, University of Bristol, UK.**

- International Foundation Year working group;
- Faculty of Engineering Equality and Diversity committee;
- Faculty of Engineering New Laboratory working group;
- University Digital Workspace advisory group;
- Best of Bristol Lectures academic lead.

2015-date **Senate Representative, University of Bristol, UK.**

100-member governing body of the University, responsible for teaching and learning, examinations and research and enterprise.

- Approval of new programmes, major changes, budgets;
- Consulted and approved £330m expansion strategy.

2015-2018 **Hall Warden, University of Bristol, UK.**

Semi-collegiate Halls structure, part of team of 11 Wardens.

- Established and led 24-person pastoral support team across two brand-new private-partnership halls for 760 undergraduate and postgraduate residents;
- Led on community-building programmes, supervised wide range of student-led activities, managed £62k budget;

2001-date **STEM Communication and Outreach, UK and international.**

Wide range of projects with various organisations and general public, including:

- *The Cosmic Shed* podcast: science fact, science fiction and everything in-between;
- Airbus *Drone Dash*; Aardman/Bristol Children's Hospital *Gromit Unleashed 2*; school & festival high-altitude balloon and rocket launches; SS Great Britain *Future Brunels*.

2013-2014 **Campaign Manager, Pacific Solo Row.**

Fund raising, logistics and charitable impact for 3-month, £100k solo ocean row.

Teaching

Level 4-6 **University of Bristol.**

- Current
 - AENG20002 Aerospace Vehicle Design and Systems Integration: mechanisms, actuation and control lead;
 - AENG30003/AENGM0032 3rd/4th year project supervision;
 - AENG year 1 & 2 study skills;
 - ENGF Transition Maths: unit director and delivery;
 - ENGF Pathways to Engineering: programme director and delivery;
- Previous:
 - AENG21200 Structures and Materials 2.

Level 3- **Secondary schools.**

- A-level Physics, Mathematics; GCSE Science (single/double/triple); BTEC Science (level 2); KS3 Science; KS1 & KS2 experiential and transition activities.

Interests

- Sustainability Social impact and responsibility; influence of technology.
- Innovation Entrepreneurship; startups; positive impact.
- Creativity Music, singing, performing; digital/analog arts.
- Adventure Mountaineering; cycle touring; ocean rowing; expeditions and exploration.