

# ANNUAL REVIEW 2018-19

## HIGHLIGHTS


- Secured a commitment from Government for increased investment in science
- Won changes to visa rules to better attract overseas talent
- Published a new report on R&D investment
- Highlighted the risks of a 'No Deal' Brexit for UK science and engineering
- Welcomed 11 new organisational members
- Held over 170 meetings with members, politicians, and the wider sector

CaSE is thriving and looking forward to the year ahead, always seeking to ensure the UK has the skills, funding and policies to enable science and engineering to thrive. However, it is worth pausing to look back and recognise how far we have come.

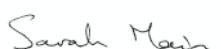
In the last year, CaSE has made a major contribution to efforts to raise the UK's research intensity to 3% of GDP with publication of its report, *Building on Scientific Strength: the Next Decade of R&D Investment*, drawing on input from across our membership and Government. This has been followed by a portfolio of evidence gathered on the R&D 'place' agenda.

We are delighted that CaSE has helped secure policy change to immigration rules to better support scientists and engineers. In particular, the exemption of PhD and Shortage Occupation List roles from the cap on Tier 2 visas for international skilled workers, and recognition of research activity in Indefinite Leave to Remain rules will make a significant difference to researchers.

As politics remains turbulent, CaSE has embedded its UK-wide presence, working with all parties across the UK's parliaments and assemblies to emphasise the importance of support for research and innovation. Thank you for your support as members and partners of CaSE.



Professor Graeme Reid  
Chair



Dr Sarah Main  
Executive Director

## SECURING AN UPLIFT IN SCIENCE AND RESEARCH INVESTMENT

Over the last year CaSE has put together a compelling case to secure an uplift in public funding for science and research, in line with the Government's target of reaching 2.4% of GDP invested in R&D by 2027 and 3% in the long-term. On the arrival of the new Prime Minister in Downing Street, CaSE was quick to publish five actions that the incoming administration could take in the first three months towards reaching this target.

- 1** Set a long-term plan and a budget to reach 2.4% by 2027
- 2** Attract Global Talent: Extend post-study work visa to 2 years
- 3** Harness the power of government to deliver the benefits of innovation faster
- 4** Promote the UK overseas: Create a digital shop window for the UK innovation offer
- 5** Increase the pool of available talent: monitor diversity data

We were delighted to secure a re-commitment from the incoming Government to meeting this target and to publishing a long-term plan in the Autumn. The Government further announced the introduction of a two-year post-study work visa, the second of our five actions to achieve success.

## BUILDING ON A SCIENTIFIC STRENGTH; THE NEXT DECADE OF R&D INVESTMENT

To ensure the 2.4% target is met CaSE published a major new report earlier this year setting out recommendations on how the Government can stimulate a rise in the UK's research intensity.

These recommendations include creating a vision with a plan and budget that attracts cross-Government support and global R&D attention, growing R&D capability by investing in infrastructure, and strengthening provision for careers guidance and education.

**"The government has set out a bold vision for UK science ... But now is the time for it to put some substance to the plan"**

CaSE Executive Director Dr Sarah Main  
BBC News

The report also includes a model for public and private R&D investment needed to reach the 2.4% target and 3% in the long term, which has been used widely by officials and the sector.



This call for investment was reinforced by a joint statement CaSE published calling on Conservative leadership candidates to pledge support for research and innovation, in collaboration with university groups, national academies, the CBI and others, and covered by BBC News and Radio 4's Today programme.

**"The evidence is clear: investment in R&D drives productivity and raises living standards, benefitting people and communities across the whole of the UK"**

Joint-statement to the Conservative Party leadership candidates

## AN IMMIGRATION SYSTEM TO ATTRACT GLOBAL TALENT

Working with its members and others in the sector CaSE managed to secure policy changes allowing international students to remain in the UK for two years after graduating to look for a job under a new two-year post-study work visa. CaSE has long called for the reintroduction of an internationally competitive post-study work route for international students, which featured most recently in our five point plan for science and engineering. Earlier in the year CaSE secured further changes from Government on immigration policy:

-  Recognition of research activity in indefinite leave to remain rules
-  Exemption of PhD and other skilled roles from the cap on Tier 2 visas for international skilled workers

CaSE also worked on feeding the views of its members into the Government's Immigration White Paper. We played a substantial role in informing the Migration Advisory Committee report on the EEA workforce that preceded the White Paper and in briefing Parliamentarians for Bill debates.

**"Any new visa system must be streamlined, easy to use and competitively priced compared to other leading science nations"**

CaSE Assistant Director, Dr Daniel Rathbone  
BBC News

## GROWING THE UK'S DOMESTIC SKILLS BASE

**"A mission on education would supply the talent to deliver and sustain a newly elevated level of research and innovation in the UK"**

CaSE Executive Director Dr Sarah Main  
writing in The Guardian

Increasing the participation of under represented groups will help address the need for more skilled researchers to reach the 2.4% R&D target. CaSE's 'five point action plan' called for Government to coordinate analysis and monitoring of diversity data to better understand causes of under-representation and take steps address the issues.

CaSE welcomed this year's A level results, showing that the number of female students taking exams in science overtook males for the first time ever, while cautioning that more needs to be done to boost diversity in STEM-related jobs.

**"R&D investment is absolutely vital to securing the UK's position as a world leader in science and innovation"**

Liberal Democrat leader Jo Swinson responding to CaSE's letter



## SUPPORTING UK-EU SCIENTIFIC COLLABORATION

With the possibility of a 'no deal' Brexit a growing likelihood, CaSE published analysis highlighting the serious implications for UK science and engineering in the event of 'no deal'. CaSE set out a checklist of issues across people, funding and regulation that the Government must take action on. These formed part of our submission to the Commons Science & Technology Committee inquiry into the outcome of 'no deal'.

To avoid such an outcome CaSE has urged Government and Parliament to reach a consensus that enables a long-lasting and fruitful future scientific partnership with the EU.

**"British science has benefited from what the Director of CaSE describes as: "A web of collaborations, shared facilities and cross-border research programmes ... which has led to a rich flow of ideas, people and research funds into the UK"**

Labour Shadow Industrial Strategy Minister Chi Onwurah MP  
Parliamentary Debate on Brexit



## EVIDENCE IN POLICY-MAKING

CaSE gave evidence to the Commons Science and Technology Committee's 'My Science Inquiry', recommending that the Committee review the uptake of and adherence to the Government Chief Scientific Advisor's guidelines on the use of science and engineering advice in policy making.

45

Meetings with Parliamentarians  
Ministers, civil servants, and  
advisors

15

Parliamentary reports and  
debates citing CaSE's evidence,  
analysis and recommendations

8

organisations quoted CaSE's  
analysis in their submission to the  
Commons S&T Committee  
inquiry into research spending

50

mentions in the media  
including BBC News, BBC  
Radio 4, City AM, The Daily  
Telegraph, The Financial  
Times, The Irish Times, and  
The Times,

## UK PLACE AGENDA

Building on our programme of work to increase R&D intensity to 2.4% of GDP by 2027, CaSE have begun to develop an evidence base examining the impact of place-based regional investment on local economic growth. Events have been held in Cardiff and Edinburgh, exploring how research led-innovation in Wales and Scotland could be maximised, with further roundtables in London, the West of England and the West Midlands, discussing the distinctive strengths and barriers of regional R&D. This project is ongoing and further events across the UK will be held to build up this evidence base.

Beyond this work stream, CaSE has held nationwide meetings across the UK with members and collaborators, as well as attending events at the Scottish Parliament, Welsh Assembly, and Northern Ireland Assembly. CaSE has welcomed Professor Mark Price, Queen's University Belfast, and Professor Lesley Yellowlees, University of Edinburgh, to the CaSE Board, further embedding UK-wide representation at all levels of the organisation.

## ENGAGING WITH THE SECTOR

### CASE ANNUAL LECTURE

CaSE held its 2018 Annual Lecture on the role of government in the future success of AI. The topic has some history with CaSE as our inaugural lecture was given on AI by Professor Sir James Lighthill in 1987. A sell-out audience were in attendance for the 2018 lecture to hear Professor Jim Al-Khalili, Professor Dame Wendy Hall and Professor Alan Winfield discuss the subject, kindly hosted by the Institute of Physics.



### EVENTS ACROSS THE UK

CaSE staff offered their insight in a range of keynote addresses and panel appearances throughout the year, including Conservative Party Conference, PraxisAuril's Director's Forum, Parliamentary Links Day, the UK Science Park Association Conference, Synbitech Conference, and UCL's Department of Science, Technology, Engineering and Public Policy.

130

one-on-one meetings with members, politicians, the media and the sector

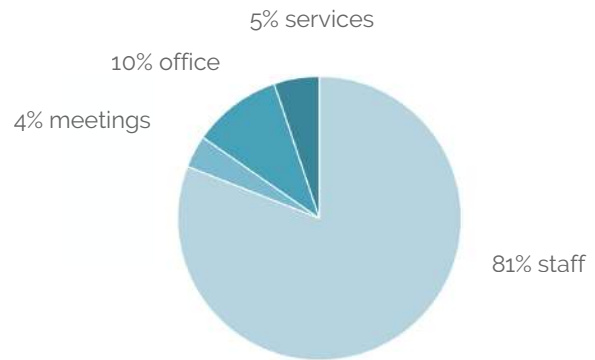
70

events organised and attended by CaSE

# AN EFFECTIVE ORGANISATION

## OUR FINANCES

CaSE is a lean organisation which operates with six members of staff and provides exceptional value for money for members. Our income was £330,000 and our expenditure was £215,000.



CaSE expenditure for 2018/19

## PEOPLE

Daniel Rathbone joined CaSE as Assistant Director in January 2019 from the House of Lords Science and Technology Committee. He replaces Naomi Weir as Deputy Director and we thank her for all hard work over the years. We also said goodbye to the Membership Engagement and Development Manager Anna Dil, who worked tirelessly to boost our organisational standing.

Our thanks also to Tasqeen Ahmed who worked at CaSE on a six-month policy placement from the civil service, and Miriam Lawan who is covering as Office Manager while Rachel Day is on maternity leave. Lastly, CaSE pays tribute to one of its founders, Dr John Mulvey, who passed away last year.

## BOARD OF DIRECTORS

This year CaSE has welcomed Professor Mark Price, Professor Lesley Yellowlees, Sinead Hesp, and David Parfrey to the Board. Standing down were Emily Shuckburgh, James Lawford Davies, John Misselbrook and Stephen Curry, whose terms have all expired. We thank them for all their support.

## JOINT FUNDED POLICY OFFICER

We're delighted that 15 organisational members have agreed to fund our Policy Officer role for a further two years through to 2021. This support for CaSE's policy output follows an initial successful funding period from 2017 to 2019. The current supporting organisations are as follows:

- Biochemical Society
- British Ecological Society
- British Pharmacological Society
- British Society of Immunology
- Cardiff University
- Institute of Physics and Engineering in Medicine
- Lancaster University
- Microbiology Society
- Queen's University Belfast
- Royal Astronomical Society
- Royal Society of Chemistry
- Ulster University
- University College London
- University of Edinburgh
- University of Exeter



# REPRESENTING OUR MEMBERS

We are delighted to welcome the following new organisational members over the past year:



As a member of CaSE you are part of a dedicated organisation that works to ensure the UK has the skills, funding and policies to enable science and engineering to thrive. Organisational member benefits include:

- Regular updates sharing intelligence, insight and the latest in policy developments
- Opportunity to support and shape our work through one-to-one meetings with CaSE
- Access to exclusive roundtable events with Parliamentarians, officials and the wider sector

This year members have had opportunities to feed in to events with Sir John Kingman and Sir Adrian Smith on issues of research funding, roundtables across the country on the local effects of R&D and on the EU settlement scheme.

**"We have been impressed with the dedication of CaSE in developing robust evidence-led policy positions that articulate the need for the UK to become a more research-intensive nation."**

Malcolm Scott, Corporate Development Officer, Aerospace Technology Institute

**"During uncertain times such as these, organisations such as CaSE play a valuable role in pushing for continued industry access to highly trained and well educated staff from both home and abroad."**

Dr Jorg Taubel, Chief Executive, Richmond Pharmacology



## INDIVIDUAL MEMBERS

CaSE has proudly represented the interests of UK scientists and engineers for over 30 years. We would like to thank all of our individual members for their generous support over the past year, allowing us to retain our independence and continue our campaign for a thriving science and engineering environment in the UK. Individual members receive event invitations, regular updates on CaSE's work, and opportunities to engage. You can also make a one-off donation to our cause.

To discuss membership or giving please contact: [info@sciencecampaign.org.uk](mailto:info@sciencecampaign.org.uk)

# ORGANISATIONAL MEMBERS

115

organisations including businesses, universities and colleges, professional bodies, trade unions, venture capital firms, and research charities

336,000

people employed collectively by our members in the UK

£32bn

invested every year globally in R&D by our industry and charity members

## Companies

Aerospace Technology Institute  
Airbus  
AstraZeneca  
Boeing UK  
Empiribox  
GlaxoSmithKline  
Johnson Matthey  
John Wiley & Sons Ltd  
MSD  
NETPark (North East Technology Park)  
PraxisAuril  
Richmond Pharmacology  
Roche  
UCB  
UK Innovation & Science Seed Fund

## Learned and Professional Societies

Biochemical Society  
BioIndustry Association  
BMVA-British Machine Vision Association  
British Ecological Society  
British Pharmacological Society  
British Society for Immunology  
Chartered Institute of Ergonomics and Human Factors  
Council of Professors and Heads of Computing  
Engineering Professors Council  
Epilepsy Society  
Experimental Psychology Society  
Heads of Chemistry UK  
Institute of Acoustics  
Institute of Mathematics and its Applications  
Institute of Physics  
Institute of Physics and Engineering in Medicine  
Institution of Chemical Engineers  
Institution of Mechanical Engineers  
Jisc  
London Mathematical Society  
Microbiology Society  
National Farmers' Union  
Prospect

Royal Astronomical Society  
Royal Society of Biology  
Royal Society of Chemistry  
Royal Society of Edinburgh  
Royal Statistical Society  
Society for Applied Microbiology  
Society for Experimental Biology  
The Association of the British Pharmaceutical Industry  
The British Psychological Society  
The Genetics Society  
The Geological Society  
The Institution of Engineering & Technology  
The Learned Society of Wales  
The Physiological Society  
UK Science Park Association  
Zoological Society of London

## Universities and Institutes

Anglia Ruskin University  
Babraham Institute  
Brunel University  
Canterbury Christ Church University  
Cardiff University  
Capital City College Group  
Durham University  
Glasgow Science Centre  
Heriot-Watt University  
Imperial College London  
John Innes Centre  
King's College London  
Kingston University  
Lancaster University  
London Metropolitan University  
London School of Hygiene and Tropical Medicine  
Loughborough University  
Newcastle University  
Northumbria University  
Plymouth University  
Queen Mary, University of London  
Queen's University, Belfast

Royal Holloway  
Sheffield Hallam University  
Swansea University  
The Alan Turing Institute  
The Open University  
Ulster University  
University College London  
University of Aberdeen  
University of Bath  
University of Birmingham  
University of Bradford  
University of Bristol  
University of Cambridge  
University of Dundee  
University of Edinburgh  
University of Essex  
University of Exeter  
University of Glasgow  
University of Kent  
University of Leeds  
University of Leicester  
University of Liverpool  
University of Manchester  
University of Nottingham  
University of Oxford  
University of Sheffield  
University of Southampton  
University of South Wales  
University of Strathclyde  
University of Surrey  
University of Warwick  
University of Westminster  
University of York  
Wellcome Trust Sanger Institute

## Charities

Versus Arthritis  
Association of Medical Research Charities  
British Heart Foundation  
Cancer Research UK  
Wellcome Trust

Campaign for Science and Engineering  
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Charity number: 1147492

Company number: 7807252

**CaSE**   
Campaign for Science  
and Engineering