THE GW4 ALLIANCE

The GW4 Alliance brings together four of the most research-intensive and innovative universities in the UK: Bath, Bristol, Cardiff and Exeter.

Over the past 5 years GW4 has invested over £4.6 million in research, training and world class facilities. GW4's total external grant income across our collaborative research communities and doctoral training programmes is over £123 million.

GW4 RESEARCH COMMUNITIES

The GW4 Alliance has invested over £2.8m in 87 collaborative research communities, which have generated £37 million in research income. This means that for every £1 GW4 spends on collaborative research communities, GW4 captures £13 in external research awards.

Over the past five years GW4’s research communities have addressed major global and industrial challenges encompassing a variety of research areas and disciplines, from researching regional responses to Brexit, mental health and nanoparticle drugs.

GW4 SKILLS AND TRAINING

We are developing the researchers of tomorrow and building a highly skilled workforce, from our GW4 Doctoral Training Programmes to the GW4 Crucible programme – which provides hands-on training and mentoring to develop collaborative research leaders of the future.

GW4 institutions host 16 GW4 DTEs and lead on a further 16 externally funded doctoral training programmes. These programmes are highly collaborative, involving a range of academic and non-academic partners. They build on our world leading expertise covering a range of topics from science and technology to art and heritage.

MAKING CONNECTIONS

Collaboration sits at the very heart of the GW4 Alliance, which is what makes us greater than the sum of our parts.

Research and innovation undertaken by the GW4 Alliance tackles some of society’s most vital challenges and informs policy at national and international levels, from pay equality to quantum security.

By engaging with stakeholders and harnessing the creativity and specialist expertise of colleagues we strengthen our networks of influence and strategic partnerships, creating real-world impact.

WORLD CLASS EQUIPMENT AND FACILITIES

GW4 believe in shared access to cutting-edge equipment to drive scientific discovery and improve lives.

GW4 invests in major flagship centres of excellence which put the region on the map and catalyse collaboration between GW4 researchers and beyond. For example:

- The GW4 Facility for High Resolution Cryo-Microscopy provides researchers across the region with a suite of state-of-the-art microscopy and analysis tools.
- GW4 researchers can access the Pre-clinical In-vivo Functional Imaging facilities across the institutions, including a Micro PET/CT scanner based in Cardiff’s PETIC facility and a 3T large animal MRI scanner based in Bristol’s Translational Biomedical Research Centre.
- VSimulators is a world class national research facility located at the universities of Bath and Exeter. It provides a platform for multi-disciplinary research to study the human experience of the built environment.

GW4 Treasures - 259 books, artefacts and objects across the GW4 universities

GW4 Treasures brings together the archives and special collections of the four universities. From historic town plans to feminist pamphlets, there is a rich variety of rare materials to explore and analyse.

GW4 Isambard - first Arm-based supercomputer in the world to go into production use

Isambard was designed by GW4 Alliance researchers in partnership with the Met Office and global supercomputer leader Cray Inc. GW4 Isambard is being used for a range of scientific research, from improving weather and climate modelling at the Met Office, to next generation healthcare and jet engine simulation.

GW4 Water Security Alliance - one of the largest water research consortiums worldwide

GW4 Water Security Alliance is one of the largest water research consortiums worldwide and explores GW4’s shared equipment database with over 1,700 items.

GW4 Doctoral Training Entities

GW4 DTEs and GW4 Crucible provide hands-on training and mentoring to develop collaborative research leaders of the future.

Enrolled students on GW4 DTE’s: 1080

Total GW4 research and training grant income: £123 million

Total GW4 investment: £4.6 million

Total return on investment for every £1 we invest: 27:1

GW4 Water Security Alliance: £4.6M

GW4 Water Security Alliance Total return on investment: £27:1

GW4 Treasures: £123M

GW4 Isambard: 27:1
GW4 region hosts the top 15 global aerospace companies.