



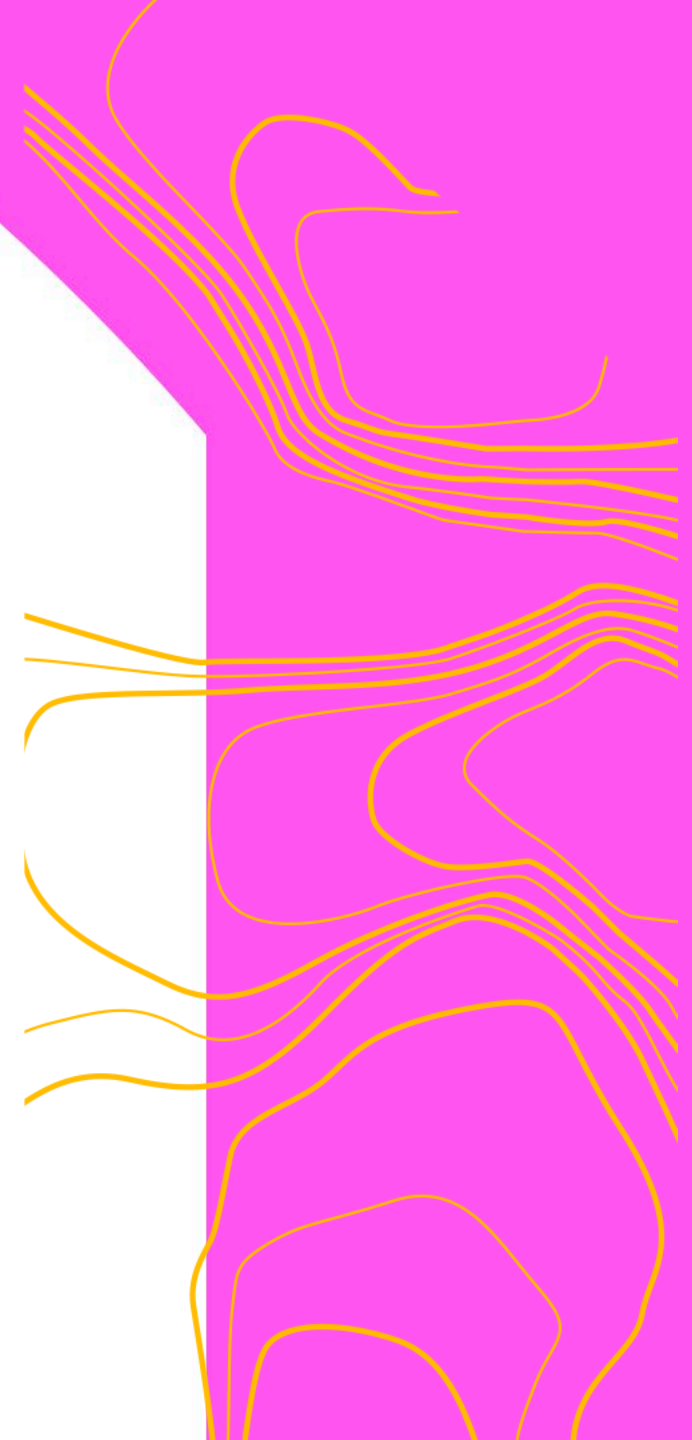
Biotechnology and
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BBSRC Perspective

Phil Hubbard
Portfolio Manager – Bioimaging

MMC 2023
BioImagingUK Community Meeting

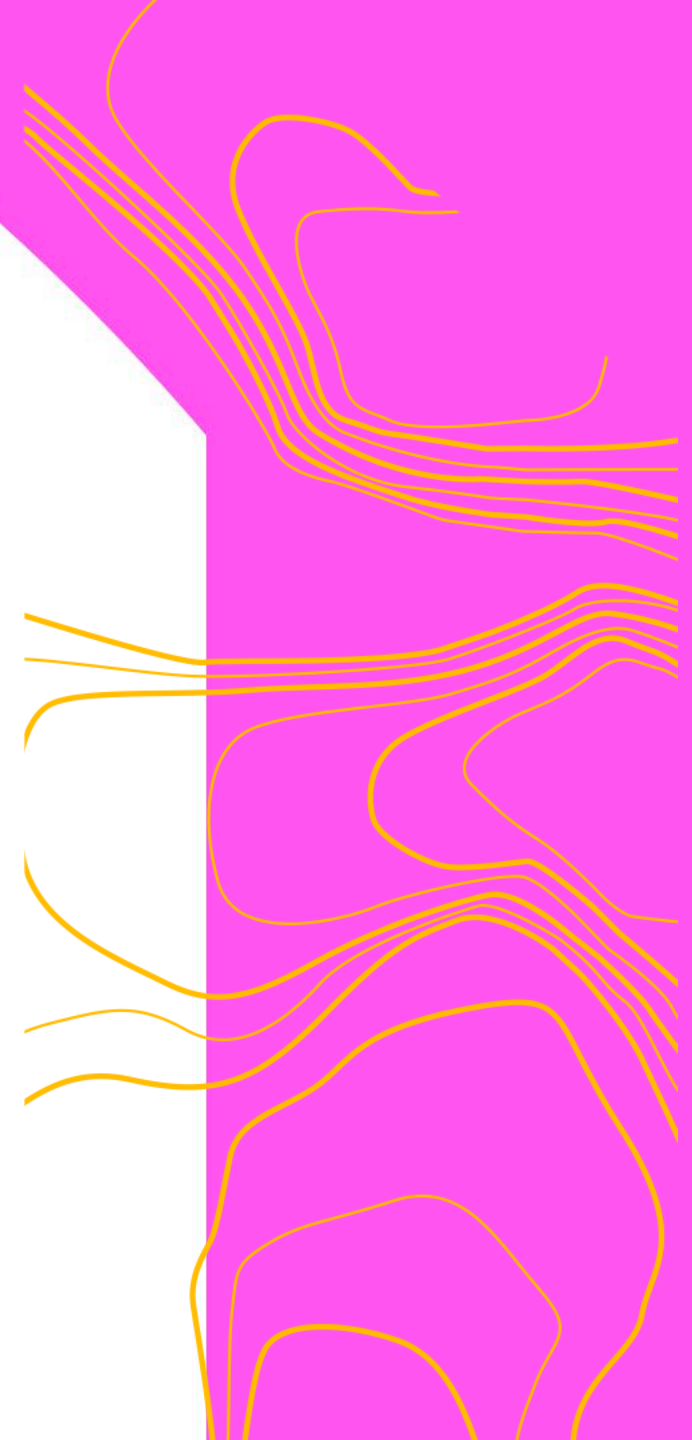
03 July 2023





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Introduction and Strategy Overview



UK Research & Innovation

- UKRI is a **national public funder** of research and innovation
- Will invest **£7.9bn in 2022/23** to support research and innovation for economic growth and benefit to society
- Seven UK Research Councils, Innovate UK, and Research England
- Funded by HM Treasury, reports to DSIT



UK Research
and Innovation



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BBSRC: What we do



- Invest in world-class **discovery** and **strategic bioscience research** to advance the frontiers of biology and drive towards a healthy, prosperous and sustainable future
- Invest in **bioscience training and skills** for the next generation of bioscientists
- Invest in **cutting-edge infrastructures** to support bioscience research
- Drive the widest possible **social and economic impact** from our bioscience in industry, policy and public goods
- Promote **public dialogue** and **engagement** on bioscience

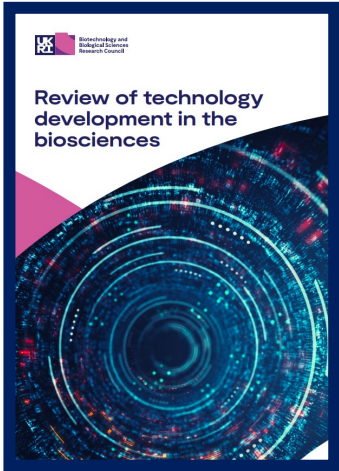
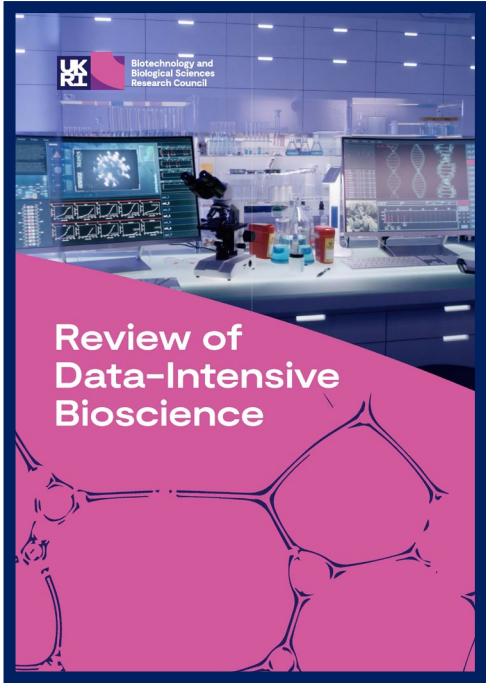
8 BBSRC-supported Research Institutes

Providing **national capability/expertise** in strategically important areas: sustainable agriculture, plant & crop science, animal health, food & nutrition, healthy ageing, advanced genomics and bioinformatics

At the core of research and innovation campuses

BBSRC Institute Strategy centres on **Capability, Connectivity & Culture**

Bioimaging and BBSRC



Infrastructure
and Access

Training and
Skills

Data
Management
and Analysis

Working in
partnership
with industry

International
Engagement

World-class
Bioscience

BBSRC Review of Technology Development Recommendations

Funding

To enable support of the different types and stages of technology development, BBSRC should establish a comprehensive support framework, leading to an increase in investment

Peer Review

BBSRC should consider innovation in its peer review processes and fully embed technology development as a recognised and valuable component

Skills and Training

BBSRC should prioritise both short and longer-term actions to support different training needs and career stages, with an emphasis on interdisciplinary and innovator skillsets

Culture Change

BBSRC should promote the value of diversity and team working in the biosciences and foster an open, dynamic, and inclusive system of technology development in the UK



Research Technology Professionals (RTPs)

BBSRC should work with the RTP community to highlight their talent and promote their central role in technology development in the biosciences

Terminology

BBSRC should consider mechanisms to bring together the technology development communities and facilitate interdisciplinary engagement

Support Landscape

BBSRC should consider opportunities to support the underpinning infrastructure required for technology development

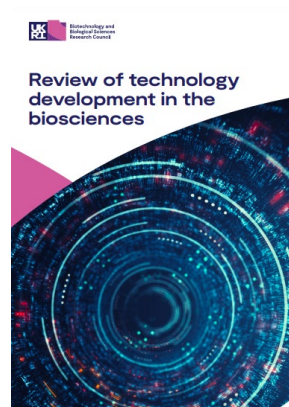
What is a Research Technical Professional?

The following definition is generally accepted across UKRI:

"Research technicians and technology and skills specialists (herein collectively referred to as Research Technical Professionals, or RTP) have expert knowledge and technical competence in their field.

They may include - but not limited to - data scientists, data engineers, archivists, informaticians, statisticians, software developers, audio-visual technologists, **technical professional staff** and individuals staffing and managing core research facilities, across all disciplines."

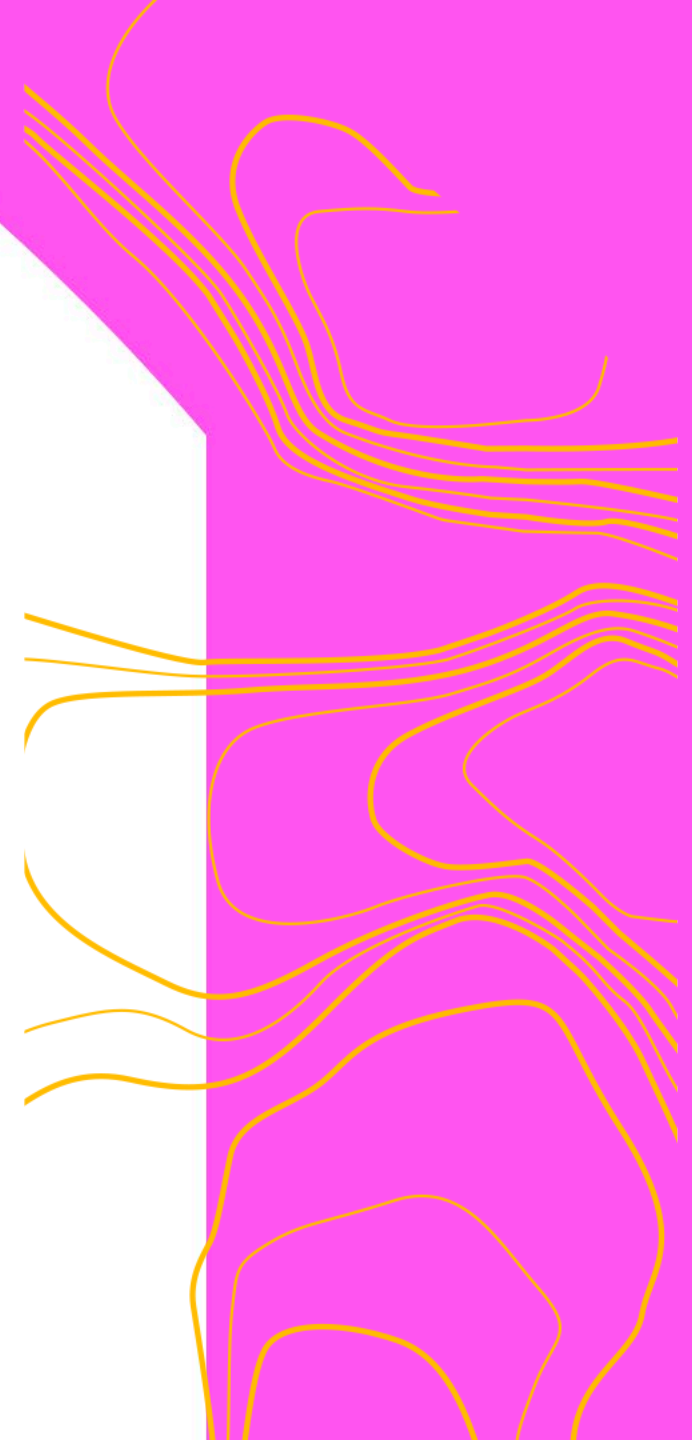
Read more information on BBSRC
Investing in Research Teams [here](#)





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Opportunity Overview



Transformative Research Technologies (TRT)

- BBSRC launched the 2023 Transformative Research Technologies (23TRT) funding opportunity on **26 June 2023**.
- Through this funding opportunity, you can apply for funding to pursue **early-stage development of cutting-edge research technologies with transformative potential in the biosciences**.
- The maximum award value is **£225,000** full economic cost (fEC) and must be **between six to 18 months in duration**. BBSRC will fund 80% of the FEC. Total fund of **£3m**.
- **Applicant Webinar Recording, Slides & Q&A Available, covering:**
 - an overview and scope of the 23TRT funding opportunity
 - what BBSRC is looking for in applications
 - the application and assessment process including applying through [the Funding Service](#)
 - opportunity for questions and answers

Responding to the review of Technology Development in the Biosciences

23TRT implements multiple recommendations from this review:

- Increased indicative funding pot (TBD, <£2.75m) and award size (+20%, £225k)
- Ensures clarity about what 23TRT's scope and aims are
- Recognize diversity of applicants and roles in the success of projects.
- Improve our peer review processes to ensure 23TRT delivers on its aims



technology.development@bbsrc.ukri.org



Review of technology
development in the
biosciences



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Live on the [funding finder](#) as of 26 June 2023

Closing 5 October 2023

BBSRC Responsive Mode

Open to applications in **all areas across BBSRC remit** – responsive to needs of community

Up to **£2 million** available for projects lasting up to **5 years**

Applications can request funds for:

- New infrastructure and equipment
- Instrument development
- Use of external equipment and facilities
- Network development and summer schools

Research Technical Professionals can be costed on to grants or apply as PI or Co-I

See RM Spotlights for 2023:

- building stronger **biological understanding of the role of nutrition on human health** across the life course
- **bioelectricity** as a holistic approach to understand diverse (microbial) **cell behaviours**
- fundamental research to **enhance animal welfare**

3 deadlines every year

- ~~11 January 2023~~
- ~~26 April 2023~~
- **27 September 2023**

Contact

Remit: remit@bbsrc.ukri.org

Eligibility: eligibility@bbsrc.ukri.org

RTPs: technicalresearchers@bbsrc.ukri.org

Cross-UKRI Responsive Mode Pilot

- Apply for funding for interdisciplinary ideas that **transcend, combine or significantly span disciplines.**
- This pilot scheme will support **breakthrough** or **disruptive interdisciplinary** ideas not routinely funded through existing UKRI responsive mode schemes.
- Awards will be **potentially transformative** for the participating disciplines or lead to the **creation of new disciplines.**
- **£200,000 to £1.2 million**, funded at 80% fEC, **£32.5m** funding pot

Round 1 is live on the [funding finder](#)

Opened 8 June 2023, Outline applications closing 20 July 2023 16:00



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Economic
and Social
Research Council



Engineering and
Physical Sciences
Research Council



Medical
Research
Council



Natural
Environment
Research Council



Science and
Technology
Facilities Council

UKRI Basic Technologies Call 2022

- **Cross-UKRI** funding opportunity, this pilot funding opportunity focused on sensing and imaging
- **Multidisciplinary** projects taking a **dual PI approach**: a problem-owner and a solution-provider
- Up to **£180k** available per project
- Initially a total of £2.5m available
- Reflecting demand, **total £4.3m invested** by UKRI across **24 projects**

Access the 2022 UKRI Basic Technologies Call Text [here](#)

Funded projects include

- Stroboscopic opto-acoustic scattering (SOAS) flow cytometer for pre-cancerous detection
University of Cambridge
- Fast DNA Sequencing Using Near-field Microwave Sensors
UCL and University of Cambridge
- Graphene based pH microsensor networks for Blue Carbon monitoring
University of Plymouth
- NoMAD: Non-destructive Mobile Analysis and imaging Device
Universities of Liverpool and Exeter



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Physical Sciences
Research Council



Medical
Research
Council



Natural
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ALERT: Mid-Range Equipment Call 2022

£200k to £1.5m available for mid-range equipment across the biosciences

Can support a range of equipment including:

- **Widely used** and **underpinning capability**
- Emerging **advanced research technology** or utilisation in new ways
- Promoting **collaboration and increased access** to users within industry, public sector and other institutes

Recent changes to guidance highlight:

- **Research Technical Professionals** can be both PIs or Co-Is
- How we define **platforms** or **pipelines**
- Welcome applications for **'lab-to-field'** equipment

“Equipment which enables the translation (or applied use) of laboratory scale experiments to real-world settings or environments”



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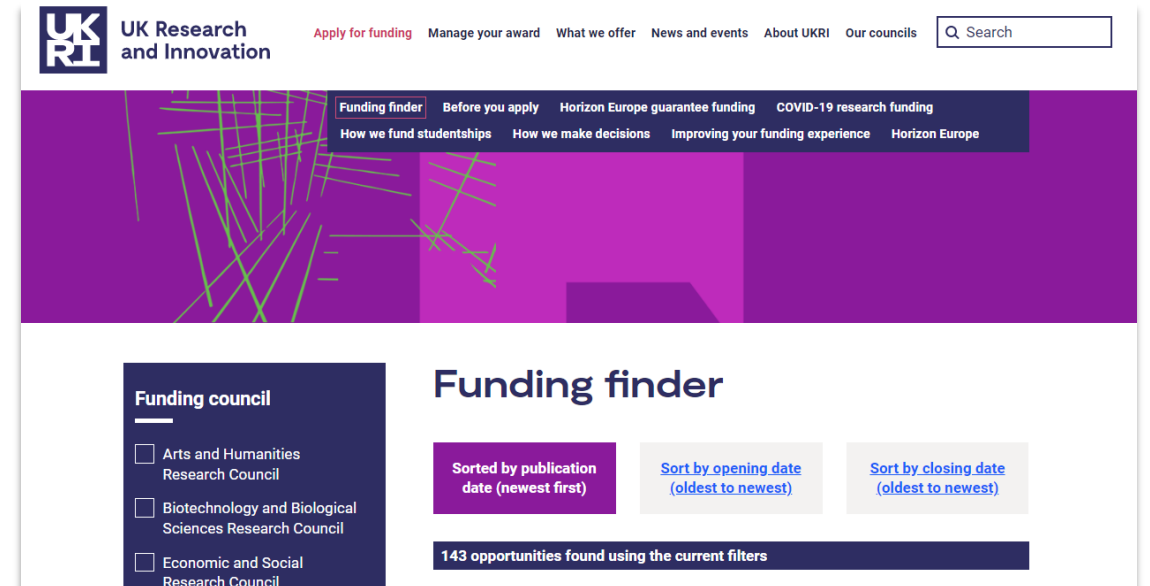
Access the 22ALERT Call Text [here](#)

Other funding opportunities

Support for Bioinformatics and Biological Resources for the Bioimaging Community

- Enabling Reliable Testing Of SMLM Datasets
King's College London
- The "SEISMIC" facility for Spatially rEsolved single and Sub-cellular oMICs
University of Surrey

- Look out for new opportunities on the horizon
*“we will invest in technology development, software, and resources through our **£9.5 million per year Tools and Resources fund**” – BBSRC SDP*
- Also consider funding opportunities from the other UKRI councils



Access the Funding Finder [here](#)

The Journey

Transition from Je-S to the new Funding Service

sbf@ukri.org

[About Simpler and Better Funding – UKRI](#)

Successive introduction of new features means new and current systems will run in parallel

New features piloted and introduced after testing and feedback from external and internal users

Research Opportunities will launch in the new service in increasing numbers through 2023

Live grants will be migrated onto the new service



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Contacts & References

Area	BBSRC Contact
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RM Remit	remit@bbsrc.ukri.org
RM Eligibility	eligibility@bbsrc.ukri.org
RTPs	technicalresearchers@bbsrc.ukri.org

Strategy Documents

[BBSRC Review of Technology Development](#)

[BBSRC Strategic Review of Bioimaging](#)

[UKRI Responsible Innovation](#)

[UKRI Strategy](#)

[UKRI Corporate Plan](#)

[UKRI Delivery Plans](#)

[Data-Intensive Bioscience Review](#)

[Technician Commitment](#)

[UK Innovation Strategy](#)



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Thank you



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