**BBSRC Strategic Delivery Plan 2022-2025 Summary**

BBSRC focus is on driving innovation & impact by providing leadership, maintaining bioscience disciplines, nurturing people, technologies and partnerships to put the UK at the forefront of the ‘bio-revolution’.

**Objective 1: People and Careers**

* People and talent

To support high-impact researchers, balancing individual and wider discipline needs they will:

* Investing at least £45m p.a. through their Doctoral & Collaborative Training Partnerships, which will be harmonised and simplified across UKRI.
* Provide £5m p.a. to support new, strategic & interdisciplinary approaches to bioscience
* Increase the diversity of people participating in BBSRC programmes by evaluating outcomes
* Support ECRs by Investing at least £7m p.a. in the Discovery Fellowships
* Pilot ways to embed sector, disciplinary and international porosity and mobility
* Research and innovation culture

To create a culture that enables the UK to attract and retain top global & domestic talent they will:

* Promote recognition for the diverse contributions made by all constituents of the workforce e.g. by introducing the Resume for Researchers and Innovators across key investments.
* Develop and promote best practice with their strategically funded institutes
* Work across UKRI, to provide evidence that informs EDI policy and practice
* Monitor the impact of UKRI’s Open Access policy and invest in *Europe PubMed Central*

**Objective 2: Places**

* Innovation places: Institutes and campuses

To identify and stimulate new bioscience ‘innovation zones’ they will:

* Initiate the next 5 year £400m cycle of major strategic research programmes at their 8 institutes
* Establish a new £40 million Veterinary Vaccine Manufacturing and Innovation Centre
* Support the creation of integrated innovation environments across the institute portfolio
* Develop new targeted funding to boost innovation activity in and between research campuses
* Maximise impact by leveraging public funding and private investment where appropriate
* Infrastructure

To ensure that UK bioscientists can access cutting-edge, sustainable research infrastructures they will:

* Expand the infrastructure of the European Molecular Biology Laboratory’s UK Outstation
* Progress national capabilities of both new and existing infrastructure nodes on the European Strategy Forum on Research Infrastructures (ESFRI) Roadmap such as ELIXIR, Euro-BioImaging and EMPHASIS
* Ensure researchers have access to essential equipment through the ‘ALERT’ programme (£13m p.a.)
* International partnership

To leverage resource and combining approaches via international cooperation they will:

* Scaleup and diversify their international funding partnerships
* Expand collaboration programmes to address UNSDG & strengthen ties around the world
* Build on their Lead Agency Agreement to enhance bottom-up collaborations
* Support UK participation in the Human Frontier Science Program, European Molecular Biology Organisation and EMBL Indicative Scheme

**Objective 3: Ideas**

* Bioscience discovery

To remain responsive to emerging research areas & fresh ways to deliver knowledge they will:

* Support a diverse range of high-quality ideas through the responsive mode programme
* Target key areas by establish a programme of dynamic ‘spotlights’ within responsive mode
* Catalyse ideas that span disciplinary boundaries, e.g. through a UKRI interdisciplinary responsive mode
* Engage stakeholders to identify, develop, promote, and invest in emerging research and training
* Understanding the rules of life

To support research to deliver new knowledge on key biological principles & mechanisms they will:

* Invest annually in a multidisciplinary portfolio of *Strategic Longer and Larger* (sLoLa) awards
* Catalyse adventurous early-stage research that could lead to breakthrough discoveries that reshape our understanding of the rules of life with a £4m pilot call in 2022

**Objective 4: Innovation**

* Enabling innovation and working with business

To support the government ambition for the UK to be an innovation nation they will:

* Establish and co-invest at least £11m with IUK, Government & the research community with the Diet and Health Open Innovation Research Club helping to inform and support national strategy and policy
* Invest at least £20m with IUK in capacity building, research, innovation and business-led commercialisation to help develop alternative, more sustainable protein sources
* Catalyse collaboration with industry for breakthrough innovations in biofilm science (£7.5m over 5 years)
* With IUK and EPSRC, investing £14m to enable businesses, academic researchers and other stakeholders to catalyse & expand research, innovation and commercialisation in sustainable biomanufacturing
* Establish a £11m Prosperity Partnership pilot aimed at partnership of businesses and academics
* Invest £6m in research & innovation-driven solutions to tackle endemic diseases in livestock, in collaboration with businesses, Defra, and the devolved administrations
* Partner with IUK to explore and create a future programme of collaboration and co-investment in mutual priority areas, with an initial focus on microbial communities
* Translation, enterprise and venture activities

To create robust business models and secure early-stage investment they will:

* Progress bioscience discoveries into pioneering policies, products, processes, & services through support for translation and follow-on funding and partnering with UK Innovation & Science Seed Fund (UKI2S)
* Increase regional and multidisciplinary collaboration and connectivity by sharing good practice in management and deployment of Impact Acceleration Accounts (IAAs)
* Establish a bioscience Innovation to Commercialise of University Research (ICURe) pilot

**Objective 5: Impacts**

* Transformative technologies

To drive the emergence and adoption of transformative bioscience technologies they will:

* Develop a National Engineering Biology Programme
* Supporting capacity building and development of digital and data skills in the biosciences
* Invest £9.5m p.a. in technology development, software, and resources via Tools & Resources Fund
* Increase capability at the interface between AI and bioscience with an initial £1m investment
* Explore opportunities to accelerate the responsible development of new biotechnologies
* Sustainable agriculture and food

To ensure UK biosciences contribute to a healthy agri-food system they will:

* Deliver the UK-wide Net Zero Agri-food Network and the Molecules to Landscape programme
* scope funding programmes & enhance coordination to address key agriculture/food challenges
* Advanced manufacturing and clean growth

To Support the delivery of the Building a Green Future programme they will:

* Deliver the £31.5m Greenhouse Gas Removal programme with other UKRI Councils, BEIS & Defra
* Scope future funding programmes on the circular economy
* Lead the UK input into the global Mission Innovation: Integrated Biorefineries programme
* Integrated understanding of health

To support bioscience research to partner with other disciplines to address health challenges they will:

* Enable new mechanistic understanding of key biological mechanisms underpinning health
* Facilitate the development, validation and uptake of transformative tools and technologies to understand, manage and improve health and wellbeing in animals and humans
* With a £4m investment drive the uptake of non-animal technologies in partnerships with SMEs
* Support interdisciplinary work in understanding the human brain and develop next generation AI

**The above objectives will be supported by a world-class organisation, delivering efficiently and effectively as part of UKRI, embedding EDI and catalysing change through evidence and engagement.**