

2025-26 Strategic Longer and larger (sLoLa) funding opportunity: Summary of BBSRC awards greater than £2 million (01 April 2025)

Link	Project Title	Project Lead Organisation	Initiative
<u>BB/V011553/1</u>	Perennial Biomass Crops for Greenhouse Gas Removal	Aberystwyth University	Greenhouse Gas Removal Demonstrators (GGR-SPF)
<u>Institute Programme</u>	Resilient Crops	Aberystwyth University	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Immunology: Molecular & Cellular Mechanisms of Host Defence and Immunosenescence	Babraham Institute	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Signalling: Molecular mechanisms underpinning healthy ageing	Babraham Institute	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Epigenetics: Epigenetics and cellular heterogeneity in development and ageing	Babraham Institute	BBSRC Institute Strategic Programme Grant
<u>BB/Y008332/1</u>	Environmental Biotechnology Innovation Centre	Cranfield University	Engineering Biology Mission Hubs and Awards
<u>BB/V003534/1</u>	SUMOcode: deciphering how SUMOylation enables plants to adapt to their environment	Durham University	Longer and Larger Grants (LoLas)
<u>Institute Programme</u>	Cellular Genomics (CELLGEN)	Earlham Institute	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Decoding Biodiversity (DECODE)	Earlham Institute	BBSRC Institute Strategic Programme Grant

<u>BB/W018012/1</u>	Pasture to Plate (P2P): realising the enormous potential of UK grasslands	Harper Adams University	Transforming the UK food system
<u>BB/Y008510/1</u>	Engineering Biology Hub for Microbial Food	Imperial College London	Engineering Biology Mission Hubs and Awards
<u>Institute Programme</u>	Building Robustness in Crops	John Innes Centre	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Delivering Sustainable Wheat	John Innes Centre	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Harnessing Biosynthesis for Sustainable Food and Health	John Innes Centre	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Advancing Plant Health	John Innes Centre	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Food Microbiome and Health	Quadram Institute Bioscience	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Microbes and Food Safety	Quadram Institute Bioscience	BBSRC Institute Strategic Programme Grant
<u>BB/Y00325X/1</u>	Development of a Chemoproteomics Centre of Excellence: A Prosperity Partnership for Drug Discovery in Northern Ireland	Queen's University of Belfast	BBSRC Prosperity Partnerships
<u>BB/Z51519X/1</u>	Relimagining Supply Chains Network Plus (RiSC+)	Queen's University of Belfast	Relimagining Supply Chains Network Plus (RiSC+)
<u>BB/T002182/1</u>	What determines protein abundance in plants?	Rothamsted Research	Longer and Larger Grants (LoLas)
<u>Institute Programme</u>	Green Engineering - knowledge-based delivery of sustainable products in plants	Rothamsted Research	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Growing Health - bio-inspired solutions for healthier agroecosystems	Rothamsted Research	BBSRC Institute Strategic Programme Grant

<u>Institute Programme</u>	Resilient Farming Futures	Rothamsted Research	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Towards Clean, Green and Net-Zero Agriculture (AgZero+)	Rothamsted Research	BBSRC Institute Strategic Programme Grant
<u>BB/Y008723/1</u>	Land Use for Net Zero Hub	The James Hutton Institute	Land Use Net Zero (LUNZ)
<u>Institute Programme</u>	Host Responses to Viral Infection	The Pirbright Institute	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Virus Life Cycles at Multiple Scales	The Pirbright Institute	BBSRC Institute Strategic Programme Grant
<u>BB/T001984/1</u>	Opportunities to modulate extracellular matrix secretion and assembly for long term health	The University of Manchester	Longer and Larger Grants (LoLas)
<u>BB/X003027/1</u>	Generalised Photocatalysis by Enzymes (GENPENZ)	The University of Manchester	Longer and Larger Grants (LoLas)
<u>BB/Y003195/1</u>	Rules of life in CO2-driven microbial communities: Microbiome engineering for a Net Zero future	The University of Manchester	Longer and Larger Grants (LoLas)
<u>BB/Y003233/1</u>	Melanin's impact on skin behaviour: Effects across the pigmentary spectrum.	The University of Manchester	BBSRC Prosperity Partnerships
<u>BB/Y003276/1</u>	SuCCEED: Sustainable Commodity Chemicals through Enzyme Engineering & Design	The University of Manchester	BBSRC Prosperity Partnerships
<u>BB/V011561/1</u>	Greenhouse Gas Removal by Accelerated Peat Formation	UK Centre for Ecology & Hydrology	Greenhouse Gas Removal Demonstrators (GGR-SPF)
<u>BB/V003542/1</u>	Origins of Biology: How energy flow structures metabolism and heredity at the origin of life	University College London	Longer and Larger Grants (LoLas)
<u>BB/W003538/1</u>	Rewriting The Genetic Code: The Algal Plastome As A Testbed For Basic And Applied Studies	University College London	Longer and Larger Grants (LoLas)

<u>BB/Y003292/1</u>	Decarbonising the Surfactant and Functional Polymer Value Chains by enzymatic processes	University College London	BBSRC Prosperity Partnerships
<u>BB/V003518/1</u>	Regulation of epithelial and endothelial cell-cell junctions by mechanical forces	University of Bristol	Longer and Larger Grants (LoLas)
<u>BB/W003449/1</u>	Creating and comprehending the circuitry of life: precise biomolecular design of multi-centre redox enzymes for a synthetic metabolism	University of Bristol	Longer and Larger Grants (LoLas)
<u>BB/Z517458/1</u>	CircadiAgeing: Clock excitability, circadian rhythms and healthy ageing	University of Bristol	Longer and Larger Grants (LoLas)
<u>BB/V004832/1</u>	Transforming Urban Food Systems for Planetary and Population Health (The Mandala Consortium)	University of Cambridge	Transforming the UK food system
<u>BB/X00306X/1</u>	Novel Plastizymes: discovery and improvement of plastic-degrading enzymes by integrated cycles of computational and experimental approaches	University of Cambridge	Longer and Larger Grants (LoLas)
<u>BB/Y003179/1</u>	Deciphering Cellular Niches and Cross-talk in Human Heart Development (CellTalkHHD)	University of Cambridge	Longer and Larger Grants (LoLas)
<u>BB/Z517495/1</u>	Exchanges at the haustorial interface: cross-kingdom border control	University of Dundee	Longer and Larger Grants (LoLas)
<u>BB/Y002997/1</u>	Advancing Plant Health: BBSRC Institute Strategic Programme Partner Grant	University of East Anglia	BBSRC Institute Strategic Programme Partner Grant
<u>BB/Y008545/1</u>	Engineered Genetic Control Systems for Advanced Therapeutics	University of Edinburgh	Engineering Biology Mission Hubs and Awards
<u>BB/Z51746X/1</u>	Reappraising the role of whole genome duplication and rediploidization in eukaryotic evolution	University of Edinburgh	Longer and Larger Grants (LoLas)
<u>BB/Z517173/1</u>	Drivers of Salmon Robustness	University of Edinburgh	BBSRC Prosperity Partnerships

<u>Institute Programme</u>	Genes & Traits for Healthy Animals	University of Edinburgh	BBSRC Institute Strategic Programme Grant
<u>Institute Programme</u>	Prevention & Control of Infectious Diseases	University of Edinburgh	BBSRC Institute Strategic Programme Grant
<u>BB/V011588/1</u>	Greenhouse Gas Removal Plus (GGR+): Sustainable Treescaping Demonstrator & Decision Tools	University of Exeter	Greenhouse Gas Removal Demonstrators (GGR-SPF)
<u>BB/X003051/1</u>	Multi-layered bacterial genome defences: linking molecular mechanisms to bacteria-MGE conflicts in single cells, populations, and communities.	University of Exeter	Longer and Larger Grants (LoLas)
<u>BB/Z516284/1</u>	Rapid Engagement with Stressed Peatland Environments and Communities in Transformation [RESPECT]	University of Glasgow	Land use for net zero – research (LUNZ-Research)
<u>BB/Z516351/1</u>	The "To Zero Fifty" Greenhouse Gas Accounting Living Lab	University of Gloucestershire	Land use for net zero – research (LUNZ-Research)
<u>BB/Y008456/1</u>	Engineering Biology Hub for environmental processing and recovery of metals; from contaminated land to industrial biotechnology in a circular economy	University of Kent	Engineering Biology Mission Hubs and Awards
<u>BB/X003086/1</u>	Unlocking the secrets of specialised ribosomes across eukaryotes	University of Leeds	Longer and Larger Grants (LoLas)
<u>BB/Z516119/1</u>	NAPIC: National Alternative Protein Innovation Centre	University of Leeds	Alternative Proteins Innovation and Knowledge Centre
<u>BB/T000627/1</u>	How do RNA-binding proteins control splice site selection?	University of Leicester	Longer and Larger Grants (LoLas)
<u>BB/V011596/1</u>	Biochar Demonstrator Addressing Key Deployment Barriers for Carbon Sequestration	University of Nottingham	Greenhouse Gas Removal Demonstrators (GGR-SPF)
<u>BB/Y00311X/1</u>	GlycoWeb	University of Nottingham	Longer and Larger Grants (LoLas)

<u>BB/Y008472/1</u>	GlycoCell Engineering Biology Mission Hub: Transforming glycan biomanufacture for health	University of Nottingham	Engineering Biology Mission Hubs and Awards
<u>BB/W003392/1</u>	Neuromodulatory-prefrontal interactions in primates	University of Oxford	Longer and Larger Grants (LoLas)
<u>BB/W00349X/1</u>	Single-molecule proteomics: next-generation analysis of proteins in individual cells	University of Oxford	Longer and Larger Grants (LoLas)
<u>BB/Y007972/1</u>	Preventing Plastic Pollution with Engineering Biology (P3EB) Mission Hub	University of Portsmouth	Engineering Biology Mission Hubs and Awards
<u>BB/V004905/1</u>	Co-production of healthy, sustainable food systems for disadvantaged communities	University of Reading	Transforming the UK food system
<u>BB/W017946/1</u>	'Raising the Pulse' (RtP): Systems analysis of the environmental, nutritional and health benefits of pulse-enhanced foods	University of Reading	Transforming the UK food system
<u>BB/V004719/1</u>	Healthy soil, Healthy food, Healthy people (H3)	University of Sheffield	Transforming the UK food system
<u>BB/V011359/1</u>	Greenhouse gas removal with UK agriculture via enhanced rock weathering	University of Sheffield	Greenhouse Gas Removal Demonstrators (GGR-SPF)
<u>BB/Y012909/1</u>	Co-Centre for SUsustainable and REsilient FOOD systems (SUREFOOD-I)	University of Sheffield	SUsustainable and REsilient FOOD systems (SUREFOOD-I)
<u>BB/X002950/1</u>	National Biofilms Innovation Centre	University of Southampton	National Biofilms Phase 2
<u>BB/Y003268/1</u>	A Prosperity Partnership for the Design of Next-Generation Antibody Drug Bioconjugates (Next-Gen ADC)	University of Strathclyde	BBSRC Prosperity Partnerships
<u>BB/Z517409/1</u>	An integrated analysis of S-acylation dynamics and its importance in cell physiology	University of Strathclyde	Longer and Larger Grants (LoLas)
<u>BB/Y003187/1</u>	Cell Wall Formation in Rod Shaped Bacteria	University of Warwick	Longer and Larger Grants (LoLas)

<u>BB/V004581/1</u>	Transformations to Regenerative Food Systems	University of York	Transforming the UK food system
<u>BB/X003035/1</u>	Understanding an ancient universal membrane effector system	University of York	Longer and Larger Grants (LoLas)
<u>BB/Z516181/1</u>	Grassland Resilience for Net Zero: Sustainable practices for shaping the future of UK land use	University of the West of England	Land use for net zero – research (LUNZ-Research)

Project summaries are available on [Gateway to Research](#) for the majority of awards. Information about Institute Strategic Programmes is available [on the UKRI website](#).