

Opportunity name: NERC large grant outlines: March 2024

Meeting Date: 12 & 13 June 2024

Application Reference	Project Title	Research Organisation	Outcome
25045	NERC-NSFGEO Gypsum GENIE	University of Bristol	Unsuccessful
25493	The Greening Of The Earth: The Carbon Cycle and Climate Feedbacks.	University of Nottingham	Unsuccessful
25904	AquaGuardAI: Delivery of an AI-Powered Sustainable Multi-Stage Water Treatment Device for Efficient Removal of Pharmaceuticals	Robert Gordon University	Unsuccessful
26829	Tracing the Chemistry of Life across the Great Oxidation Event	University of St Andrews	Successful
27044	NERC/NSF Study of East African Air Quality (SEAQUAL)	University of York	Successful
27900	Tracking predators and prey: a path to sustainable biodiversity in agricultural landscapes	University of Aberdeen	Unsuccessful
28219	The role of pollution on freshwater contamination and its contribution to disease burden in Uvira, Democratic Republic of the Congo	London School of Hygiene & Tropical Medicine	Unsuccessful
29634	Stability and Future Capacity of Fjord Carbon Storage	University of St Andrews	Unsuccessful
30058	Enhancing the Assessment, Management, and Restoration of Freshwater Catchments through Digital Twinning	Cardiff University	Unsuccessful
30198	NERC large grant: Microplastics in the Arctic Ocean - sources, cycling and biological impact (ArcPlas)	National Oceanography Centre	Unsuccessful
30389	Were Oligochaetes Responsible for Making the Worlds' Old Rainforests Largely Disappear? (WORMWORLD)	University of Bristol	Unsuccessful
30551	Integrating taxonomy and ecology to determine tropical tree diversity and climate vulnerability	Royal Botanic Garden Edinburgh	Unsuccessful
30754	Quantifying transitions in tropical mega-delta carbon [Delta-C]	Newcastle University	Unsuccessful
30756	Artificial Skyglow and the Ecology of Moonlight: Impacts in the Sea (ArtEMIS)	Aberystwyth University	Unsuccessful
30809	Beyond roots to shoots: linking urban forest function, ecosystem services and biodiversity across the city-scape	University of Sheffield	Unsuccessful
30887	GREENIAND: Glacier retreat expands the niche for arctic nitrogen fixing diazotrophs	University of Liverpool	Unsuccessful

30894	CALibration and Impact of Ionospheric Plasma State Observations (CALIPSO)	British Antarctic Survey	Unsuccessful
31096	TipEWS Early Warning Signals for Environmental Tipping Points	UK Centre for Ecology & Hydrology	Unsuccessful
31116	Evolutionary Ecology of Sociosexual Behaviour in Macaques	Imperial College London	Successful
31446	Physical drivers, biological impacts and socioeconomic consequences of Extreme Climatic Events in the northeast Atlantic	Marine Biological Association of the United Kingdom	Unsuccessful
31626	Marine sediment movement: particle-scale physics to field-scale flows bridged by rheology and multiscale modelling	University of Glasgow	Unsuccessful
31686	Space Transportation: Ozone Impacts and Climate (STOIC)	University of Leeds	Unsuccessful
31697	Metocean Climate Change Monitoring using Advanced Remote Sensing for Offshore Wind Power Expansion	University of Surrey	Unsuccessful
32210	NERC-NSFGEO Hydroclimate2k: Global hydroclimate reconstructions for the Common Era	University of Nottingham	Unsuccessful
32307	FLUX: The evolutionary demography and epidemiology of "endemic" wildlife disease	University of Exeter	Successful
32712	Oak genomics, climate change, and woodland food webs	University of Oxford	Unsuccessful
32806	Current and Future Emissions of Africa Wetland Methane (CurFEW): bridging local to continental scale to quantify key Earth System Feedbacks	University of Edinburgh	Successful
32929	Evaluating the effects of seaweed sinking and deposition in the Caribbean (SeaSINC+)	National Oceanography Centre	Successful
33106	Transforming dust-climate projections using albedo-based dust emission modelling	Cardiff University	Unsuccessful
33233	High-resolution Hydrology dynamical and AI Digital twins for drought and flood mapping and impacts in a changing climate (H2O-AID)	University of St Andrews	Unsuccessful
33287	Biogeochemical Interactions of Ocean Alkalinity enhancement in Shelf Seas (BIOAlkSS)	University of Portsmouth	Unsuccessful
33521	Vulnerability and resilience of mesophotic coral ecosystems to climate change	University of Plymouth	Successful
33540	Tripartite analysis (microbial, chemical and physical) for the determination of soil health on a global scale(TADS)	University of the West of Scotland	Unsuccessful
33592	Neanderthal & Early Modern Human Energetics, Ecologies & Landscapes (NEMHEEL)	University of Southampton	Unsuccessful

33614	Rapid and robust prediction of biodiversity and carbon recovery in Neotropical rainforests	Royal Botanic Gardens Kew	Unsuccessful
33706	Future of island multidimensional megadiversity	Royal Botanic Gardens Kew	Unsuccessful
33736	EDGE: Quantifying Escalating Disruption of Global Biogeochemical Cycles by Hydrological Extremes	Lancaster University	Unsuccessful
33742	ForestFire: Wildfire, global wood security, and conservation	University of Cambridge	Unsuccessful
33936	Viralis vitalis: Soil viral biodiversity and role in regulating microbial function	Bangor University	Successful
34133	Genome Diversity in the UK Flora, Fauna and Fungi	Natural History Museum	Unsuccessful
34255	Expecting the unexpected: understanding 'dangerous' volcanic eruptions (INQUISITION)	University of Bristol	Successful
34266	Deep Earth learning: a modern re-evaluation of Earth's Interior	University College London	Unsuccessful
34603	Climate warming accelerates positive feedback through more efficient methane production - ClimMeth	University of Warwick	Unsuccessful
34638	Forest Resilience Digital Twin Demonstrator (FReDo)	Forest Research	Unsuccessful
34791	Causes and consequences of Arctic Atlantification: Stronger storms impact ice, ocean and ecosystems	Bangor University	Unsuccessful