

**2014 Strategic Environmental Science Capital Call – October 2014**

NERC Reference	Research Organisation	Title	Score 'Fit to Scheme'
CC076	Scottish Universities Environmental Research Centre (SUERC)	A plasma source positive-ion mass spectrometer for next generation radiocarbon ( <sup>14</sup> C) and beyond.	6
CC030	University of Hertfordshire	Cloud and aerosol dropsonde system for FAAM aircraft	6
CC002	University of Aberdeen	PolyExESS: PolyEXtremophile Environment Simulation System	6
CC082	University of St Andrews	New analyses of trace environmental sulfate, and sulfur and metal isotopes in individual organic compounds by multi-collector inductively coupled plasma mass spectrometer (MC-ICP-MS) with gas chromatograph (GC)	6
CC080	Sir Alister Hardy Foundation for Ocean Science (SAHFOS)	Development of total environment ocean surface sensing array - integrating continuous plankton measurements and state-of-the-art marine environmental sensing technologies across the global ocean.	6
CC042	University of Manchester	Nanoscale Imaging and Analysis Facility for Environmental Materials (NIAFEM). Field Emission Gun Scanning Electron microscope (FEG-SEM) with m-focus X-ray fluorescence (XRF), energy dispersive spectroscopy (EDS) and Raman.	6
CC046	Marine Biological Association (MBA)	MICRO-CLIMATE – an advanced quantitative microscopy resource with precise environmental control of temperature, CO <sub>2</sub> and O <sub>2</sub>	6
CC019	Durham University	HiFAST: A portable, high-frequency acquisition system to measure dynamic stress and strain in natural rocks experimentally deformed at seismic, high strain-rates.	6
CC003	Aberystwyth University	Developing the next generation of Quaternary dating methods using a high resolution spatially resolved luminescence imaging system.	6
CC034	University of Lancaster	RAPID 2G magnetometer with Field-Tumbling capability (acronym: R2G-FT).	5
CC035	University of Leeds	Three-dimensional fluid dynamic measurements: combining Volumetric Particle Imaging Velocimetry (Volumetric PIV) with three dimensional Laser Doppler Anemometry (3D-LDA)	5

CC010	University of Bristol	High resolution gas chromatograph quadrupole time-of-flight mass spectrometer for complex mixture analysis and accurate mass determination.	5
CC090	University of York	Molecular Quantification of organic Aerosols by High Resolution Mass Spectrometry (MQA-HR-MS).	5
CC061	Plymouth Marine Laboratory	Environmental Single Cell Genomics (eSCG) instrumentation	5
CC078	University of Sheffield	QuantStudio 12K Flex Real-Time PCR System, with OpenArray/96 well block and Taqman Array upgrade and robotic liquid handling. Provider: Applied Biosystems/Life Technologies.	5
CC041	Loughborough University	Time Resolved Laser Fluorescence Spectroscopy (TRLFS).	5
CC081	University of Southampton	A liquid He-free u-channel Superconducting Rock Magnetometer (SRM) with automated long core sample treatment system for analysis of sediment, rock and soil cores; bio-magnetite; archaeological artefacts and synthetic materials.	5
CC036	LEAD: University of Leicester	European Mid-Latitude High Frequency SuperDARN radar	5
CC036	COLLABORATOR : University of Lancaster	European Mid-Latitude High Frequency SuperDARN radar	5
CC059	University of Plymouth	Ultra High Performance Liquid Chromatograph-Time of Flight-Mass Spectrometer (uHPLC-TOF-MS)	5
CC073	Royal Holloway, University of London	Pioneering triple-quadrupole ICPMS for complete interference control and highest sensitivity in laser-ablation (LA )ICPMS: Multiple applications including in-situ sulphur in ice cores and speleothems	5
CC049	Newcastle University	Ground Based Synthetic Aperture Radar: GB-SAR is a field based radar imaging system offering users enhanced capabilities in mapping topography and monitoring ground displacements and revolutionising the land survey industry.	5
CC018	Durham University	Scanning probe microscope – stable isotope mass spectrometer (SPM-SIMS) for establishing mineral chemistry equilibria.	5
CC047	Natural History Museum, London	High resolution micro-CT scanner, incorporating multi-energy scanning and phase contrast capability.	5
CC060	University of Plymouth	Video and image seabed sampling platforms facility. Funding is required to enhance Plymouth's existing facility through technological development, purchase of an electric winch, and supporting material.	5

CC077	University of Sheffield	LGC Genomics – SNPLINE LITE genotyping system	5
CC016	Cranfield University	Microcalorimetric equipment for soil ecosystem thermodynamic efficiency determination and organic matter decomposition studies.	5
CC011	University of Bristol	Medusa Gas Chromatograph-Mass Spectrometer (Medusa-MS) for trace analysis of climate-reactive gases, biogenic gases and volatile pollutants.	5
CC025	University of Exeter	Amnis® ImageStreamX Mark II Imaging Flow Cytometer.	4
CC001	University of Aberdeen	Multi-Vis: A high resolution large scale X-Ray CT Scanner to build a multi-scale environmental science focussed facility in northern UK.	4
CC009	University of Brighton	Polyomics Centre and Biobank for Aquatic Toxicity Research.	4
CC032	Not Funded		4
CC088	Not Funded		4
CC050	Not Funded		4
CC023	Not Funded		4
CC014	Not Funded		4
CC022	Not Funded		4
CC074	Not Funded		4
CC064	Not Funded		4
CC031	Not Funded		4
CC004	Not Funded		4
CC005	Not Funded		4
CC007	Not Funded		4
CC008	Not Funded		4
CC017	Not Funded		4
CC024	Not Funded		4
CC029	Not Funded		4
CC033	Not Funded		4
CC037	Not Funded		4
CC038	Not Funded		4
CC054	Not Funded		4
CC057	Not Funded		4
CC062	Not Funded		4
CC063	Not Funded		4

CC070	Not Funded		4
CC071	Not Funded		4
CC072	Not Funded		4
CC075	Not Funded		4
CC083	Not Funded		4
CC087	Not Funded		4
CC087	Not Funded		4
CC006	Not Funded		3
CC013	Not Funded		3
CC026	Not Funded		3
CC039	Not Funded		3
CC040	Not Funded		3
CC044	Not Funded		3
CC045	Not Funded		3
CC045	Not Funded		3
CC048	Not Funded		3
CC053	Not Funded		3
CC056	Not Funded		3
CC067	Not Funded		3
CC069	Not Funded		3
CC079	Not Funded		3
CC085	Not Funded		3
CC089	Not Funded		3
CC086	Not Funded		2
CC086	Not Funded		2
CC012	Not Funded		2
CC01S	Not Funded		2
CC021	Not Funded		2
CC027	Not Funded		2
CC028	Not Funded		2
CC043	Not Funded		2
CCOS1	Not Funded		2
CC052	Not Funded		2

CC055	Not Funded		2
CC058	Not Funded		2
CC065	Not Funded		2
CC066	Not Funded		2
CC068	Not Funded		2
CC084	Not Funded		2

**Assessment Panel Scoring Criteria - 2014 Strategic Environmental Science Capital Call**

Score	Definition: Fit to Scheme
6	<b>Outstanding:</b> The proposed asset would create/support a step change in research UK research potential, clearly aligned with NERC strategy and with high potential for large scale impacts. Exceptional route for scientific lifetime operation of the asset to ensure maximum value. No equivalent in the UK; or the asset is already available, but a very strong case has been made for an additional asset. Top 5%.
5	<b>Excellent:</b> The proposed asset would transform research UK research potential, clearly aligned with NERC strategy and with clear potential for large scale impacts. Excellent route for scientific lifetime operation of the asset to ensure maximum value. No equivalent asset in the UK; or the asset is already available, but a good case has been made for an additional asset. Top 25%.
4	<b>Very good:</b> The proposed asset would be complimentary to existing facilities but does not provide a step change in research UK research potential. Evidence of potential for small scale impacts. Very good alignment with NERC strategy. Very good route for scientific lifetime operation of the asset to ensure maximum value. No equivalent facility in the region (e.g. unique in Scotland); or the asset is already available, but the asset will add significant value to a current/planned facility.

<p style="text-align: center;"><b>3</b></p>	<p><b>Good:</b> The proposed asset would be complimentary to existing facilities but it is not clear how it would provide a step change in UK research potential. Evidence of potential for small scale impacts. Good alignment with NERC strategy. Good route for scientific lifetime operation of the asset to ensure maximum value. No equivalent facility in the region (e.g. unique in Scotland); or the asset is already available, but the asset will add value to a current/planned facility.</p>
<p style="text-align: center;"><b>2</b></p>	<p><b>Poor:</b> Numerous equivalent facilities are available at a number of UK ROs/NERC facilities; there is no clear need for an additional asset. Little evidence of potential for impacts. Limited alignment with NERC strategy. Little evidence of how the asset will be operated over its scientific lifetime to ensure maximum value.</p>
<p style="text-align: center;"><b>1</b></p>	<p><b>Very poor:</b> Numerous equivalent assets available locally; there is no clear need for an additional asset. Limited alignment with NERC strategy. No evidence of potential for impacts or that the asset will be operated to ensure maximum value over its scientific lifetime.</p>
<p style="text-align: center;"><b>Reject</b></p>	<p><b>Out of Scope:</b> Numerous equivalent assets available locally; use of current NERC facility more appropriate. Unable to link asset to NERC strategic priorities. Not capital (e.g. resource, routine replacement).</p>