

Dates	Title	Description	Short description	Keynote publication	Tools
Jan 16 - Mar 18	Tree Selection for Green Infrastructure	NERC award to Lancaster University and Ian Charles Dodd	To design and produce a decision support tool for practitioners involved in tree-planting, supporting them to select the best possible species for the context and to move away from a small corpus of “traditional” varieties, thus increasing biodiversity.	Hirons, A. D. (2018) Tree Species Selection for Green Infrastructure: A Guide for Specifiers. Trees & Design Action Group	Tree Species Selection for Green Infrastructure Tool
Oct 18 - Sep 22	Greening Neighbourhood Plans: Integrating green infrastructure into community-led planning	ESRC award to University of Manchester	A PhD project to examine how GI can be fostered through the neighbourhood planning process, to develop methodologies to capture the value of GI at neighbourhood scale and to develop guiding principles for GI at neighbourhood and larger spatial scales.	None as yet	None as yet
May 18 - Aug 20	Integrated Green Grey Infrastructure Framework Accelerator	NERC award to University of Glasgow and Larissa Naylor	A project to use the Integrated Green Grey Infrastructure Framework (IGGIframe) - a tool for including green infrastructure elements in grey infrastructure. The	MacArthur M (2019) Maximising the ecological value of hard coastal structures using textured formliners in Ecological Engineering	None from this grant, but promotes use of the IGGIframe tool

			tool will be used by 5 partner organisations.		
Jan 16 - Feb 17	A national benchmark for green infrastructure	NERC award to University of the West of England and Danielle Sinnett	The development of a national benchmark for green infrastructure, including planning, design, delivery and long-term management.	Sinnett D (2018) Raising the standard: Developing a benchmark for green infrastructure in International Journal of Sustainable Development and Planning	The Building with Nature standards and framework
Jan 16 - Mar 16	An Ecosystem Services Approach to Green Infrastructure Partnership Planning	NERC award to Imperial College London and Alexandra Collins	Following on from the Defra-funded ESUWE project which developed metrics to quantify the costs and benefits of ecosystem services in urban areas, this project applies this approach in four demonstration areas.	None listed	None listed
Apr 16 - Dec 17	A Decision Framework for Integrated Green Grey Infrastructure (IGGIframe)	NERC award to University of Glasgow and Larissa Naylor	Investigating methods for incorporating green infrastructure into grey infrastructure and developing a toolkit to help practitioners apply them .	Naylor, L.A. (2017) Greening the Grey: A Framework for Integrated Green Grey Infrastructure (IGGI)	The IGGIframe tool
Jan 16 - Aug 17	A National Scale Model of Green Infrastructure for Water Resources	NERC award to University of Oxford and Jim William Hall	Using the outputs of individual Natural Water Resource Management (NWRM) projects to identify the costs and benefits for NWRM across Great Britain , mapping solutions in financial and carbon terms.	None listed	<ul style="list-style-type: none"> • A tool for the transformation of river flow sequences in response to land use change based on quantile-quantile association • An integrated Land Use/Water

					Resource/Infrastructure planning model, allowing scenarios of land use change, population change and climate change to be integrated (based on modification of the Future Flows Hydrology data set)
Jan 16 - Dec 17	Valuing Green Infrastructure Through Tree Assessment Tools (VITAL)	NERC award to Open University and Philip Michael Wheeler	Improving the existing OU citizen science tool for tree assessment, “Treezilla”, so that it ties in with the most widely used tool for assessing ecosystems services provided by trees, “I-tree Eco”.	None listed	The improved Treezilla website/ interface
Apr 16 - Mar 19	Green Growth: Increasing Resilience in Cities Through the Delivery of Green Infrastructure-based Solutions	NERC award to University of Manchester and Adam James Barker	Translating GI scientific research into a practical and applicable user interface.	UK Green Building Council (2020) Practical How-to Guide: Developing and Implementing a Green Infrastructure Strategy	Understanding Green Infrastructure: A Signposting Guide
Mar 16 - Feb 18	Injecting a Natural Capital Planning Tool into Green-Blue Infrastructure Management	NERC award to University of Birmingham and Jon Sadler	Applying the previously-developed Defra Natural Capital Planning Tool (NCPT) with seven case-study partners, including local authorities and companies.	Nothing listed	Nothing listed, but invokes the Natural Capital Planning Tool – the most recent version is the “ Enabling a Natural Capital Approach ” resource

Apr 19 - Nov 20	"UK" Green Infrastructure for roadside air quality mitigation: unblocking a UK policy impasse	NERC award to University of Birmingham and A. Robert MacKenzie	Developing a software platform for the quantitative assessment of Green Infrastructure as an aid to the improvement of roadside air quality	Pearce H (2021) Introducing the Green Infrastructure for Roadside Air Quality (GI4RAQ) Platform: Estimating Site-Specific Changes in the Dispersion of Vehicular Pollution Close to Source in Forests	The GI4AQ tool
Aug 16 - Jul 20	'Green infrastructure and the Health and wellbeing Influences on an Ageing population (GHIA)	NERC award to University of Manchester and Sarah Lindley	Researching the benefits of GI for an ageing population and seeking to translate these findings into policy and practice.	Benton J (2020) Method for Observing pHysical Activity and Wellbeing (MOHAWk): validation of an observation tool to assess physical activity and other wellbeing behaviours in urban spaces in Cities & Health	The MOHAWk tool (no link)
Jun 16 - Dec 19	Improving Wellbeing through Urban Nature: integrating green/blue infrastructure and health service valuation and delivery (IWUN)	NERC award to University of Sheffield and Anna Jorgensen	Investigating how the health and wellbeing of the people within different neighbourhoods relates to the quantity, quality and distribution of natural greenspaces where they live.	 Brindley P (2019) Is more always better? Exploring field survey and social media indicators of quality of urban greenspace, in relation to health in Urban Forestry & Urban Greening	The Shmapped tool (not available online)
Nov 18 - Apr 19	Assessing biodiversity within green infrastructure developments; a monitoring strategy for	NERC award to University of the West of England and Paul Lintott	Developing a methodology for the assessment of biodiversity in new GI installations, post-construction; adapting and	None listed	No stand-alone tools; a contribution to the Building with Nature standards and framework

	policy makers, practitioners and developers		enhancing the “Building with Nature” standards.		
Jan 16 - Dec 16	Arup Global Research Challenge: Delivering green infrastructure in cities through a new business model	NERC award to Newcastle University and Richard Jonathan Dawson	A project to identify, investigate and pilot tangible design, funding, implementation and operating models for green infrastructure which can be replicated or adapted internationally – including the greening of laneways in Melbourne, and the coupling of Newcastle University’s pluvial map of Melbourne with Arup’s “Floodlite” economic tool.	LAMOND J (2020) USING AN ECOSYSTEM SERVICES LENS TO EXPLORE A BROADER FUNDING BASE FOR LANEWAYS	None listed
Oct 19 - Sep 20	Essential infrastructure or ornamental afterthought? Reimagining urban green space planning in the contemporary city	ESRC award to London School of Economics & Pol Sci and Meredith Whitten	Investigating whether the conceptualisation of green space as a heritage or recreational asset only has hampered the development of multifunctional GI, and whether new bodies dealing with London’s green spaces on a larger scale are redressing that balance.	Mell I (2021) Access to Nature in a Post Covid-19 World: Opportunities for Green Infrastructure Financing, Distribution and Equitability in Urban Planning. in International journal of environmental research and public health	None listed

Apr 16 - Nov 19	Open KE Fellowship - MEDIATE: Overcoming barriers to MaximisE Data potential for better blue-green-grey InfrAsTructurE	NERC award to University of Birmingham and Emma Ferranti	Demonstrating the added value of intelligent information-sharing on GI, working with two non-academic partner organisations: Birmingham City Council, working on Natural Health Improvement Zones; and Network Rail.	Ferranti E (2020) Using the Business Model Canvas to increase the impact of green infrastructure valuation tools in Urban Forestry & Urban Greening	None listed
Oct 17 - Sep 19	Exchanging knowledge on the multiple values of urban green infrastructure in sub-Saharan Africa	NERC award to University of Leeds and Martin Dallimer	Working with partners across low-income countries in Sub-Saharan Africa to facilitate knowledge exchange on the benefits of urban green infrastructure.	Du Toit M (2018) Urban green infrastructure and ecosystem services in sub-Saharan Africa in Landscape and Urban Planning	None listed
Jan 16 - Apr 18	TOOLS FOR PLANNING AND EVALUATING URBAN GREEN INFRASTRUCTURE - BICESTER AND BEYOND	NERC award to University of Oxford and Pamela Mary Berry	Working with Forest Research to compile a toolbox of existing methods that can be used to plan and evaluate GI, and develop clear step-by-step guidance to help users select and apply the best tools to meet their needs; working with local planners to develop a GI Plan for Bicester.	Smith A. C. (2019) A toolkit for planning and evaluating urban GI - in Bicester and beyond in Town and Country Planning	Various tools for planning and evaluating urban GI – not available online.
Oct 20 - Mar 24	Mainstreaming green infrastructure: how to better use the green belt to address the	NERC award to Northumbria University	A PhD project investigating the current and potential contribution of the green belt to climate change	None listed	None listed

	climate and biodiversity emergencies in North East England		mitigation and biodiversity.		
Jan 19 - Mar 19	[Viet Nam] Valuing the benefits of blue/green infrastructure for flood resilience, natural capital and urban development in Viet Nam	NERC award to University of St Andrews and Tobias Borger	Investigate the multiple benefits of blue-green infrastructure in short- and long-term urban development, with application to the city of Can Tho, Viet Nam.	Jiang J (2021) A coupled hydrodynamic and particle-tracking model for full-process simulation of nonpoint source pollutants in Environmental Modelling & Software  Jiang L (2020) A Multi-Scale Mapping Approach Based on a Deep Learning CNN Model for Reconstructing High-Resolution Urban DEMs in Water	High-Performance Integrated Hydrodynamic Modelling System
Sep 17 - Mar 21	Mainstreaming green infrastructure in planning policy and decision making: Translating NERC science into a co-produced spatial planning toolkit	NERC award to Northumbria University and Alister James Scott	Investigate the delivery of GI in the UK planning system, including the development of tools for the policy and practice of GI, evaluating existing policy and practice, and seeking to change behaviour of planning professionals.	Hislop M (2019) What Does Good Green Infrastructure Planning Policy Look Like? Developing and Testing a Policy Assessment Tool Within Central Scotland UK in Planning Theory & Practice	The GIPPAT tool for assessing planning policies
Jun 18 - Aug 18	Developing a 'GI4RAQ' platform to predict quantitatively the	NERC award to University of Birmingham and A. Robert MacKenzie	Develop a tool to quantitatively predict the highly location-specific	Pearce H (2021) Introducing the Green Infrastructure for Roadside Air Quality (GI4RAQ)	The GI4AQ tool

	potential of strategic green infrastructure to improve roadside air quality at planning		impacts of GI upon roadside air quality.	Platform: Estimating Site-Specific Changes in the Dispersion of Vehicular Pollution Close to Source in Forests	
Feb 16 - Feb 17	Arup Global Research Challenge: Novel technologies to understand relationships between green infrastructure and environmental quality in cities	NERC award to University of York and Alistair Boxall	Explore how new modelling and monitoring technologies could be used to better understand the potential impact of GI resources within cities on environmental quality.	None listed	None listed
Jan 19 - Mar 22	[Viet Nam] Valuing the benefits of blue/green infrastructure for flood resilience, natural capital and urban development in Viet Nam	NERC award to Loughborough University and Lee Scott Boshier	Investigate the multiple benefits of blue-green infrastructure in short- and long-term urban development, with application to the city of Can Tho, Viet Nam.	Jiang J (2021) A coupled hydrodynamic and particle-tracking model for full-process simulation of nonpoint source pollutants in Environmental Modelling & Software  Jiang L (2020) A Multi-Scale Mapping Approach Based on a Deep Learning CNN Model for Reconstructing High-Resolution Urban DEMs in Water	High-Performance Integrated Hydrodynamic Modelling System
Apr 19 - Mar 22	[Viet Nam] Valuing the benefits of blue/green infrastructure for flood	NERC award to University of Stirling and Danny Campbell	Investigate the multiple benefits of blue-green infrastructure in short- and	Jiang J (2021) A coupled hydrodynamic and particle-tracking model for full-process	High-Performance Integrated

	resilience, natural capital and urban development in Viet Nam		long-term urban development, with application to the city of Can Tho, Viet Nam.	simulation of nonpoint source pollutants in Environmental Modelling & Software  Jiang L (2020) A Multi-Scale Mapping Approach Based on a Deep Learning CNN Model for Reconstructing High-Resolution Urban DEMs in Water	Hydrodynamic Modelling System
Nov 18 - Aug 19	Establishing Transport for London's first evidence-based approach to strategic green infrastructure for improved roadside air quality & public health	NERC award to University of Birmingham and James Geoffrey Levine	Using TfL's GIS system and the previously-developed GI4AQ tool to develop an evidence-based methodology for planning GI to reduce roadside air pollution.	Pearce H (2021) Introducing the Green Infrastructure for Roadside Air Quality (GI4RAQ) Platform: Estimating Site-Specific Changes in the Dispersion of Vehicular Pollution Close to Source in Forests	Employs the previously-developed GIS4AQ platform.
Nov 16 - Oct 17	EKN Tool Assessor: Facilitating the application of innovative tools in the assessment of ecosystem services, green infrastructure and natural capital	NERC award to University of Oxford and Alison Smith	Expand the Environment Knowledge Network's existing Tool Assessor resource, which collates tools for assessing natural capital, green infrastructure and the ecosystem services that flow from them. Add additional tools and case studies, and compiling a	Smith A. C. (2019) A toolkit for planning and evaluating urban GI - in Bicester and beyond in Town and Country Planning	The extended Ecosystems Knowledge Network Tools Assessor

			list of datasets linked to the most relevant tools.		
May 20 - Oct 22	Mobilising Adaptation: Governance of Infrastructure through Coproduction (Topic B)	NERC award to University of Sheffield and Liz Sharp	Explore whether communities themselves can provide and manage floodwater storage features either on public land or on their own properties, drawing on a case study of Hull.	None listed	None listed
Oct 17 - Sep 20	A natural experiment of the effects of "greening" the environment on physical activity and wellbeing	ESRC award to University of Manchester	Seek to understand how changes in green infrastructure affect wellbeing using multi-perspective qualitative methods. Develop formal guidance for future research on this topic	Benton JS (2021) <i>A natural experimental study of improvements along an urban canal: impact on canal usage, physical activity and other wellbeing behaviours.</i> in The international journal of behavioral nutrition and physical activity	
Oct 21 - Sep 25	The impact of co-designed green space on physical activity behaviour in children from ethnically diverse low socio-economic neighbourhoods.	ESRC award to University of Bradford	A PhD project using an interdisciplinary approach to enhance the design, development and use of green space by ethnically diverse, low SES communities.	None listed	None listed
Sep 19 - Sep 23	Articulating voluntarism, wellbeing, and sustainability in the practice of green prescribing in the UK	ESRC award to University of Bath	To investigate green prescribing - social prescriptions of clients to nature-based interventions.	None listed	None listed

Dec 21 - Nov 25	Maximising ecosystem services in urban environments (MEaSURE)	NERC award to University of Salford and Richard John Birtles	To understand how biodiversity can be used to enhance ecosystem multifunctionality in urban landscapes at contrasting scales.	None listed	None listed
Dec 21 - Nov 25	Maximising ecosystem services in urban environments (MEaSURE)	NERC award to University of Manchester and David Johnson	To understand how biodiversity can be used to enhance ecosystem multifunctionality in urban landscapes at contrasting scales.	None listed	None listed
Dec 21 - Nov 25	Maximising Ecosystem Services in Urban Environments (MEaSURE)	NERC award to University of Glasgow and Lucy Gilbert	To understand how biodiversity can be used to enhance ecosystem multifunctionality in urban landscapes at contrasting scales.	None listed	None listed
Nov 17 - Jul 18	Linking ecosystem services and businesses through Green Bonds	NERC award to University of Exeter and Nibedita Mukherjee	Investigating the potential of Green Bonds – a long-term investment vehicle for funding greening projects.	Mukherjee N (2019) Response to Expanding the role of social science in conservation through an engagement with philosophy, methodology and methods in <i>Methods in Ecology and Evolution</i>	None listed
Feb 16 - Apr 17	Implementing GI approaches to river engineering protection measures	NERC award to H R Wallingford Ltd and Jonathan David Simm	To support asset managers, engineers, decision-makers, and other end-users to identify and select green engineering options for river engineering	Roca Marta (2017) Green approaches in river engineering: Supporting implementation of Green Infrastructure	None listed

			protection in the fluvial environment.		
May 20 - Jan 22	Blueprint for a Flood and Drought Research Infrastructure	NERC award to NERC British Geological Survey and John Paul Bloomfield	To provide the evidence for, and recommendations on how the intended programme of flood and drought infrastructure could be established and managed in order to deliver benefits to society	Wagener T (2021) Knowledge gaps in our perceptual model of Great Britain's hydrology in Hydrological Processes	None listed
Oct 17 - Jul 21	Collaborative infrastructures for just, ecological and transformative urban design	ESRC award to University College London	To investigate how infrastructural challenges (water, waste, energy, food) and can be addressed via nature-based solutions and ecosystem services, which in turn contribute to increasing wellbeing and quality of life.	Puskás N (2021) Assessing deeper levels of participation in nature-based solutions in urban landscapes - A literature review of real-world cases in Landscape and Urban Planning	None listed
May 20 - Jan 22	Blueprint for a Flood and Drought Research Infrastructure	NERC award to University of Bristol and Thorsten Wagener	To provide the evidence for, and recommendations on how the intended programme of flood and drought infrastructure could be established and managed in order to deliver benefits to society	Wagener T (2021) Knowledge gaps in our perceptual model of Great Britain's hydrology in Hydrological Processes	None listed
Jan 18 - Jan 21	The Economics and Financing of Resilient Urban Infrastructure	ESRC award to University of Leeds and Paola Hernandez Montes De Oca	To investigate the options available for ensuring the resilience of urban infrastructure in UK cities, considering costs,	Sakai P. (2020) Submission to Call for Evidence to the House of Commons Environment Food and Rural Affairs Select	Tool to Assess Climate Opportunities And a Tool to Assess the Economic Costs of

			sustainability and co-benefits.	<i>Committee inquiry into the government's approach to flood risk of inland flooding in England (complete)</i>	Flooding on SMEs (not available online)
May 20 - Jan 22	Blueprint for a Flood and Drought Research Infrastructure	NERC award to UK Ctr for Ecology & Hydrology fr 011219 and Nicholas Reynard	To provide the evidence for, and recommendations on how the intended programme of flood and drought infrastructure could be established and managed in order to deliver benefits to society	Wagener T (2021) <i>Knowledge gaps in our perceptual model of Great Britain's hydrology</i> in Hydrological Processes	None listed
Aug 20 - Jan 22	Blueprint for a Flood and Drought Research Infrastructure	NERC award to Imperial College London and Wouter Buytaert	To provide the evidence for, and recommendations on how the intended programme of flood and drought infrastructure could be established and managed in order to deliver benefits to society	Wagener T (2021) <i>Knowledge gaps in our perceptual model of Great Britain's hydrology</i> in Hydrological Processes	None listed
Oct 21 - Sep 25	Investigating human and environment interdependency through relational wellbeing in blue-green spaces	ESRC award to University of Exeter	A PhD project to investigate the links between wellbeing and experience of blue-green spaces, in order to improve human wellbeing and environmental outcomes.	None listed	None listed
Oct 17 - Jan 22	The nature of inequality: Assessing the impact of green development initiatives in developed countries	ESRC award to University of Strathclyde	A PhD project to examine the social and economic effects of local green energy and conservation initiatives in developing	None listed	None listed

			countries, and to determine whether they have alleviated poverty.		
Sep 16 - Dec 18	Smart eco-cities for a green economy: a comparative study of Europe and China	ESRC award to University of Exeter and Federico Caprotti	A comparative analysis of green economy-focused eco-city projects in China and Europe, investigating the potential for, and barriers to, a successful transition to a green economy.	Caprotti F (2020) <i>Platform urbanism and the Chinese smart city: the co-production and territorialisation of Hangzhou City Brain</i> . in GeoJournal Caprotti F (2019) <i>Varieties of smart urbanism in the UK: Discursive logics, the state and local urban context</i> in Transactions of the Institute of British Geographers	Algorithm for search queries for SMART-ECO database SMART-ECO database and search Methodology for evaluating smart cities in the EU and UK (not available online)
Sep 17 - Dec 21	An interdisciplinary study of what makes GPs and gatekeepers recommend green prescriptions to their patients	ESRC award to University of Sheffield	A PhD proposal investigating the factors which cause GPs to make “green prescriptions”.	Robinson J (2019) <i>Green Prescriptions and Their Co-Benefits: Integrative Strategies for Public and Environmental Health</i> in Challenges	None listed
Jun 20 - Dec 21	Nature Engagement and Wellbeing Pre-, During and Post Covid-19: Supporting the UK (Green) Recovery	ESRC award to University of Surrey and Birgitta Gatersleben	To investigate how wellbeing during and post lock-down has changed across the UK as a result of changes in access to- and engagement with different natural environments.	Xu S (2021) <i>#Springwatch #WildMorningswithChris: Engaging With Nature via Social Media and Wellbeing During the COVID-19 Lockdown</i> . in Frontiers in psychology	None listed

Oct 17 - May 21	Access to blue/green space in healthcare settings or deprived communities to tackle health inequalities.	ESRC award to Swansea University	A PhD project to investigate the proximity to, amount, and type of green space that has an impact on specific health benefits, considering the impacts upon different socio-economic groups.	None listed	None listed
Jun 17 - Mar 21	Harmonising and UPgrading GREENhouse gas removal (GGR) consequential Life Cycle Assessment (UP-green-LCA)	NERC award to Cranfield University and Pietro Goglio	To harmonise the various life-cycle analysis approaches to assess GGRT, including biochar application, biomass carbon storage, land management change, ocean fertilisation and direct air capture.	Goglio P (2020) <i>Advances and challenges of life cycle assessment (LCA) of greenhouse gas removal technologies to fight climate changes</i> in Journal of Cleaner Production	None listed
Oct 21 - Mar 25	Motivations to visit green and natural spaces - how perceptions of 'quality' vary across different communities	ESRC award to University of Liverpool	A PhD project to investigate how communities that face multiple deprivations, including ethnic minorities, perceive the quality of green and blue space, and how this influences visitation and the associated health benefits.	None listed	None listed
Jun 20 - Nov 21	The impact of Covid-19 restrictions on recreation and use of green space in Wales	ESRC award to Bangor University and Simon Willcock	To investigate how Covid-19 restrictions have affected people's use of green space. Repeating, during Covid-19 restrictions, a survey	Willcock S (2021) <i>High Spatial-Temporal Resolution Data across Large Scales Are Needed to Transform Our Understanding of Ecosystem Services</i> in Land	None reported

			carried out in January 2020 on the use of green spaces in Wales, and comparing the findings		
Sep 21 - Feb 23	Urban greening for climate-resilient neighbourhoods: linking scholars and cities across the UK and Taiwan	ESRC award to Open University and Leslie James Mabon	To evaluate how neighbourhoods in two cities - Glasgow, Scotland; and Taipei, Taiwan - experience risks from climate change and feel the benefits of city-led nature-based resilience strategies.	None listed	None listed
Oct 19 - Oct 23	Understanding Effect Modifiers of the Relationship Between Health and Exposure to Urban Green and Blue space	NERC award to Imperial College London	A PhD project to identify and assess factors that can modify a natural environments ability to provide health benefits - characteristics of vegetated and built-up space; the nearby physical environment; demographic, social and economic factors; how regularly people visit natural environments and for how long; individual preference and perception.	None listed	None listed
Nov 20 - May 24	Securing Lawtonian Landscape Resilience	NERC award to Cranfield University	A PhD project investigating how to create a coherent and resilient ecological network in the UK, by	None listed	None listed

			means of green infrastructure investments informed by robust science		
--	--	--	----------------------------------------------------------------------------	--	--