



DEPARTMENT	DESCRIPTION	SUSTAINABLE DEVELOPMENT GOALS																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		NO POVERTY	ZERO HUNGER	GOOD HEALTH & WELLBEING	QUALITY EDUCATION	GENDER EQUALITY	CLEAN WATER & SANITATION	AFFORDABLE & CLEAN ENERGY	DECENT WORK & ECONOMIC GROWTH	INDUSTRY, INNOVATION & INFRASTRUCTURE	REDUCED INEQUALITIES	SUSTAINABLE CITIES & COMMUNITIES	RESPONSIBLE CONSUMPTION & PRODUCTION	CLIMATE ACTION	LIFE BELOW WATER	LIFE ON LAND	PEACE, JUSTICE & STRONG INSTITUTIONS	PARTNERSHIPS FOR THE GOALS
Arthrox UK Innovation Unit	Offer mite pesticide resistance testing and new product formulation services.		Y															
Foodtrac Scientific Innovation Unit	Offers a range of services for food analysis and nutritional advice.		Y															
Nzomics Biocatalysis Innovation Unit	Supplies custom-made enzymes to companies looking to use biocatalysis in industrial biotechnology applications.								Y			Y						
NU-OMICS	Offers a comprehensive DNA sequencing service based on our MiSeq and PacBio sequencing platforms, with support for experimental design and bioinformatics data handling.			Y														
<b>ARCHITECTURE AND BUILT ENVIRONMENT</b>																		
Civil Engineering: Heritage and Future	Using modern techniques to understand existing engineering achievements both ancient and recent, and using this understanding to determine how we create, sustain and value civil engineering infrastructure for the future.								Y		Y							
Construction, Technology, Process and Management	Examines contemporary and emerging industry challenges to deliver conjoined evidence-based solutions – from theoretical concepts and methodologies, through to the delivery of innovative approaches to improve sector performance.								Y		Y							
Built Environment: Digital Futures	The digitisation of the built environment brings emerging challenges and opportunities. We address applied and theoretical research themes pertinent to digital technologies, processes and policies to improve the economic, environmental, physical and social performance of the built environment.								Y		Y							
Architectural Design	Examines a wide range of design-related projects, from local developments and commissions through to major international city infrastructure schemes.										Y							
People and Place	We study the interactions between people and the built environment in the context of place. Engaging with the social, economic, physical and cultural fabric of a place, the group	Y		Y							Y	Y						



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	technology in transformational ways.																		
Information Management and Data Analytics (IMDA)	We take a multidisciplinary and multidimensional approach to the study of data and information to explore the way they are created, used and managed in specific personal and organisational contexts.			Y	Y					Y		Y						Y	
Network Systems and Security (NetSyS)	Network systems are embedded into every aspect of our digital living, enabling inter-connectivity between devices, applications, services and people for extraction, transfer and exchange of information. We engage in cutting-edge research to design and develop end-to-end secure and reliable networking systems.																	Y	
Northumbria Social Computing	Technology is inherently social. To design it well requires critically understanding the people that use it, the ways in which they live and interact with one another, and the impacts that it can have on our behaviours and interactions with the world.					Y												Y	
Faculty Education Research Group	This cross-disciplinary group supports educational and pedagogic research, ranging from small projects with an immediate impact on the student experience, through to funded collaborative projects with external partners generating high impact outputs.				Y													Y	
<b>GEOGRAPHY AND ENVIRONMENTAL SCIENCES</b>																			
Social and Cultural Geographies	The Social and Cultural Geographies group embraces a range of interests across human geography at Northumbria, whilst incorporating links with cognate social science subjects and encompassing relationships with organisations outside of academia.	Y							Y		Y	Y						Y	Y
Disasters, Development and Resilience	Research in this area addresses current and future survivability, with a focus on key themes of hazard, risk reduction, sustainable development and resilience, all of which are oriented to providing an evidence base for forming policy and new practices.	Y	Y	Y								Y		Y					
Cold and Palaeo Environments	The group carries out research and field-based projects around the globe. The team												Y	Y	Y				

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	investigate both modern and ancient environments from the tropics to the polar regions, under the main research themes of ice and snow permafrost; and past climate and environment.																	
Environmental Geochemistry and Ecology	We provide environmental and analytical training and consultancy for industry, focusing on the sustainability of the physical, chemical and biological environments. Our work covers local to global issues in areas such as environmental and spatial analysis; policy and prevention; climatic impacts and ecosystem services.				Y						Y	Y	Y	Y	Y			
Northumbrian Environmental Training and Research Centre (NETREC)	We provide dedicated research and consultancy for hundreds of companies across the UK in environmental issues and analytical services for industry, as well as a range of accredited training courses including the NEBOSH diploma and certificate.				Y			Y					Y	Y	Y	Y		
Faculty Education Research Group	This cross-disciplinary group supports educational and pedagogic research, ranging from small projects with an immediate impact on the student experience, through to funded collaborative projects with external partners generating high impact outputs.				Y													
<b>HUMANITIES</b>																		
English	English Literature, Language and Linguistics and Creative Writing			Y	Y	Y					Y							
History						Y				Y	Y		Y		Y	Y		
Music																		Y
American Studies										Y	Y					Y	Y	
<b>MATHEMATICS, PHYSICS AND ELECTRICAL ENGINEERING</b>																		
Applied Statistics	Our research focuses on the development and application of statistical models to real-life problems in the fields of health, medicine and social science.			Y		Y				Y	Y					Y		
Mathematics of Complex and	Applications that are currently under investigation include the solutions of models			Y					Y				Y					Y









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	collaboration.																	
International and Comparative Law and Human Rights Research Interest Group											Y						Y	
Law and the Humanities Research Interest Group	Encourages, promotes, and produces research in law and the humanities with a focus on the cross-disciplinary fields of legal history, law and literature, law and film, law related art-visual imagery and legal architecture.											Y					Y	
Medical and Mental Health Law Research Interest Group (MELRIG)	Brings together academics, postgraduate researchers and practitioners who have a specialist interest in medical and mental health law, policy and practice.			Y							Y						Y	
Property Law Research Interest Group	The group is concerned with land law, landlord and tenant, equity, planning, and environmental law but is also interested in deeper issues such as the nature of real property, cultural property, and an individual's/group's non-legal connection to property.	Y									Y	Y						
Science and Justice Research Interest Group	Evaluates and promotes the understanding of the role of science in securing a 'just' society. Topics of interest include: forensic science; genetics; biometrics; technology; data & databases; surveillance; miscarriages of justice; regulation of science; bioethics; interaction of science and law; and space law.			Y													Y	
The Family Justice Research group	The group's diverse remit encompasses work in relation to domestic abuse and gender based violence, youth justice, international family law, child protection, children's rights and the formation and dissolution of relationships.					Y					Y						Y	
Gender, Sexuality and Law	Draws together established, early career academics and postgraduate students from a range of disciplines across the University aligned with the core theme of gender, sexuality and law.					Y					Y						Y	
NINSO The	Analyses the impact of the Internet and related											Y						









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**MAPPING MDRTS AND THE SDGS**

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<b>Bio Economy</b>	<p><b>Challenge:</b> To create a competitive, innovative and sustainable bio-based economy while decoupling economic growth from resource depletion and climate change.</p> <p><b>Response:</b> In partnership with businesses, we are examining how bio-based/ bio-inspired products and processes could provide a sustainable and resource-efficient solution to this global problem, in relation to food, chemicals, materials, energy production, health and environmental protection.</p>								8.4	9.4		11.3 11.6 11.7	12.2 12.5	13.2				Y
<b>Human and Digital Design</b>	<p><b>Challenge:</b> Digital technologies can empower people and revolutionise how we live our lives, do our work, and connect with each other. However, as technologies become increasingly data-driven and artificially intelligent they have the potential to disempower and deskill, and to leave certain sectors and populations behind.</p> <p><b>Response:</b> We work with companies developing new technologies to ensure they fully address human needs, partner with health and care providers, charities and cultural organisations to help them maximise the potential of technology adoption, and collaborate with government to share roadmaps and policy for technology development.</p>			Y	Y					Y		Y					Y	Y
<b>Extreme Environments</b>	<p><b>Challenge:</b> Extreme environments are found on Earth's surface, its subsurface, oceans, and in the atmosphere, as well as in the solar system. At the most extreme, conditions challenge the existence of most known life forms.</p> <p><b>Response:</b> Our researchers are using novel techniques and approaches to shed new light on the impact of climate change on the planet's natural systems. Our work includes the exploration of the West Antarctic ice sheet, predicting changes in water resources from Himalayan mountain glaciers, climatic reconstruction using deep ocean cores, and investigating carbon release from Siberian</p>						Y					Y		Y	Y	Y		Y





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	<p>those around gender, are being exacerbated by long standing and emerging global challenges. How can we address the connected challenges of global poverty, inequality and sustainability?</p> <p><b>Response:</b> Working in partnership with governments, global development organisations, businesses and civil society organisations, as well as with the individuals and communities who face these challenges, we are developing research to help us understand the impacts of poverty, inequality and the climate emergency on diverse groups, and to co-design strategies to address these challenges.</p>																	

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