

Sample recent and current R&D projects completed by the ConstructInnovate research team (2017-2022) Updated 22 June 2022

Project	Website	Funder	Period (months)	Project start date	Project completion date	Contacts
+CityxChange	https://cityxchange.eu/	EU H2020	36	2018	2023	Prof Philip Crowe, UCD, philip.crowe1@ucd.ie
A roadmap for the deployment of electrofuels for the decarbonization of heat and transport in Ireland		SEAI	36	2020	2023	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
AA-Floods	http://aafloods.eu/	EU Interreg Atlantic Area	36	2019	2023	Prof. Alan O'Connor, TCD, Alan.oconnor@tcd.ie
ACE		SFI	48	2020	2024	Dr Marguerite Nyhan, UCC, marguerite.nyhan@ucc.ie
ACET - Adaptive Control for energy Efficiency in wastewater Treatment		SEAI	24	2022	2024	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
ACHIEVING NEARLY ZERO ENERGY BUILDING (NZEB) STANDARDS BY DEEP RETROFITTING EXISTING BUILDINGS.	https://www.nzeb-retrofit.com/	SFI	15	2019	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Additive Manufacturing for Tooling Applications (AM-Tool)		Enterprise Ireland	12	2018	2019	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
Advanced Composites in Marine and Construction Applications	https://mmcrg.ucd.ie/	NI Advanced Competence in Engineering	24	2017	2019	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
Advancing the Structural Safety and Efficiency of Modular Construction Connections under Normal and Extreme Loading Conditions	https://mmcrg.ucd.ie/	Enterprise Ireland	36	2021	2024	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
AI4EU	https://www.ai4europe.eu/	EU H2020	36	2019	2021	Professor Edward Curry, Data Science Institute / Insight SFI Research Centre for Data Analytics, edward.curry@nuigalway.ie, edward.curry@insight-centre.org
ALECS 2	https://alecs.lero.ie/	EU H2020	12	2022	2023	Professor Edward Curry, Data Science Institute / Insight SFI Research Centre for Data Analytics, edward.curry@nuigalway.ie, edward.curry@insight-centre.org
ALECS: Advanced Learning in Evolving Critical Systems	https://alecs.lero.ie/	EU H2020	72	2017	2023	Professor Edward Curry, Data Science Institute / Insight SFI Research Centre for Data Analytics, edward.curry@nuigalway.ie, edward.curry@insight-centre.org
ALIVE - Assessing Indoor Environmental Quality and Energy Efficiency In a range of Naturally-Ventilated Buildings: A Multi-Disciplinary Approach	https://www.nuigalway.ie/thealiveproject/	SEAI	48	2020	2024	Miriam Byrne, NUIG, Miriam.byrne@nuigalway.ie
AQUACATCH	http://www.morefish.ie/aquacatch/	Industry	24	2019	2021	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie

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Assessing the engineering impacts to the gas grid of widespread use of compressed natural gas ('CNG') and biomethane feed-in - Industry Portion		SFI	18	2018	2019	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Assessment of Aircraft Noise Abatement Strategies		NASA CT Space Grant Consortium	12	2019	2020	Dr Eoin King, University of Galway, eoin.king@nuigalway.ie
Assessment of VentilAtion effectiveness via a Longitudinal indoor environmental study in 'A' rated Irish Dwellings: VALIDate	https://www.nuigalway.ie/validate/	SEAI	30	2018	2021	Miriam Byrne, NUIG, Miriam.byrne@nuigalway.ie
AUGMENTED CCAM		EU H2020	40	2022	2026	Dr Abollah Malekjafarian, UCD, Abdollah.malekjafarian@ucd.ie
Automated and rapid Fault Diagnoses of Railway Tracks using In-service Train Measurements		SFI	36	2022	2025	Dr Abollah Malekjafarian, UCD, Abdollah.malekjafarian@ucd.ie
BENEFIT - Building Evaluations for Indoor Air Quality and Comfort in the Non-Residential Sector Following Energy Efficient Improvement		SEAI	48	2022	2025	Dr James McGrath, University of Galway, James.a.mcgrath@nuigalway.ie
Big Data Value Ecosystem (BDVe)	https://www.big-data-value.eu/	EU H2020	48	2017	2020	Professor Edward Curry, Data Science Institute / Insight SFI Research Centre for Data Analytics, edward.curry@nuigalway.ie, edward.curry@insight-centre.org
Bridge Networks Lifecycle Optimisation		TII	36	2017	2020	Prof Alan O'Connor, TCD, alan.oconnor@tcd.ie
Budapest Citizen's Observatory	https://spaceengagers.org/projects/budapest-citizens-observatory/	EU	12	2017	2017	Philip Crowe, UCD, philip.crowe1@ucd.ie
Build Digital Project	https://www.builddigitalproject.ie/	DPER	60	2022	2026	Robert Moore, robert.moore@builddigitalproject.ie
Building Upon the National Renovation Strategy	https://constructionblueprint.eu/initiative/building-upon-irelands-national-renovation-strategy/	SEAI	18	2019	2021	Pat Barry, IGBC, pat@igbc.ie
BuildingLife	www.igbc.ie	Industry	24	2020	2022	Pat Barry, IGBC, pat@igbc.ie
BuildUpon 2	https://buildupon2.eu/	EU H2020	24	2019	2022	Pat Barry, IGBC, pat@igbc.ie
CAROLINE Fellowship - IMAGE - Ireland's BioMonitoring Assessment of Glyphosate Exposures	https://www.nuigalway.ie/image/	IRC	30	2019	2021	Dr Alison Connolly, NUIG, Alison.Connolly@nuigalway.ie
Causeway	https://www.marei.ie/project/the-causeway-project/	EU Connecting Europe Fund	36	2018	2020	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
CCAT: Coastal Communities Adapting Together	https://www.ccatproject.eu/	EU INTERREG Ireland-Wales	33	2019	2022	Philip Crowe, UCD, philip.crowe1@ucd.ie

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C-CHANGE	https://www.marei.ie/project/c-change/	EPA	18	2020	2022	Dr Marguerite Nyhan, UCC, marguerite.nyhan@ucc.ie
CERCOM	Alan.oconnor@tcd.ie	CEDR	24	2021	2023	Alan O'Connor, TCD, Alan.oconnor@tcd.ie
Circularlife	https://www.igbc.ie/circularity-built-environment/	EPA	24	2021	2023	Pat Barry, IGBC, pat@igbc.ie
CIVIC		EPA	24	2017	2019	Dr Paraic Ryan, UCC, Paraic.ryan@ucc.ie
Cloud-based BIM (CBIM)	https://cbim2020.net.technion.ac.il/	EU H2020	48	2020	2024	Dr James O'Donnell, UCD, james.odonnell@ucd.ie
CMEX	https://www.igbc.ie/wp-content/uploads/2021/12/CMEX-One-page-Flyer.pdf	DECC	12	2021	2022	Pat Barry, IGBC, pat@igbc.ie
Combined cyber and physical threats to critical infrastructure	https://people.ucd.ie/daniel.mccrum	Internal	48	2019	2023	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
ComSense - Sensorised Composites		Enterprise Ireland	18	2019	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
ComSense - Sensorised Composites Feasibility Study		Enterprise Ireland	3	2020	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
Continuous Anaerobic Digestion Trials of Tequila By-products		SFI	12	2021	2022	Dr Richard O'Shea, UCC, richard.oshea@ucc.ie
Contribution of floor treatment characteristics to background noise levels in health care facilities		Industry	24	2020	2022	Dr Eoin King, University of Galway, eoin.king@nuigalway.ie
CRISIS		EPA	36	2020	2023	Dr Marguerite Nyhan, UCC, marguerite.nyhan@ucc.ie
CROSS TECHNOLOGIES AND INNOVATIONS IV- DEVELOPMENT OF AERATION AND OXYGENATION TECHNOLOGIES FOR THE WASTEWATER TREATMENT AND AQUACULTURE SECTORS		Enterprise Ireland	12	2019	2020	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
DeepWindDemo	https://www.nuigalway.ie/structures/projects/	SEAI	24	2022	2024	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
DEGRADATION OF COMPOSITES (DECay)		Enterprise Ireland	20	2018	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
DENIM	https://denim-fof.eu/	EU H2020	48	2020	2024	Dr Ken Bruton, UCC, ken.bruton@ucc.ie
DePuy Synthes/MaREI collaboration	https://www.inimedtech.com/en-US/companies/depuy-synthes	SFI	72	2017	2023	Dr Ken Bruton, UCC, ken.bruton@ucc.ie

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DESIGN AND OPTIMISATION OF HIGHLY EFFICIENT WIND TURBINE BLADES FOR RETROFITTING EXISTING IRISH WIND FARMS	https://www.nuigalway.ie/structures/projects/	SFI	12	2020	2021	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
DESIGN AND OPTIMISATION SOFTWARE FOR FULL-SCALE WIND AND TIDAL TURBINE BLADES	https://www.nuigalway.ie/structures/projects/	SFI	6	2019	2019	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Design and testing of cold-formed steel panelised construction subject to disproportionate collapse		Internal	48	2021	2025	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
Developing economic solutions for on-farm anaerobic digestion under Irish conditions (EcoAD)	https://www.seai.ie/data-and-insights/seai-research/research-projects/details/developing-economic-solutions-for-onfarm-anaerobic-digestion-technologies-under-irish-conditions-ecoad	SEAI	36	2020	2022	Dr Richard O'Shea, UCC, richard.oshea@ucc.ie
DEVELOPMENT AND TESTING OF NOVEL SANDWICH PANEL STRUCTURE SUITABLE FOR USE IN THE NEXT GENERATION WIND AND TIDAL ENERGY DEVICE	https://www.nuigalway.ie/structures/projects/	SFI	18	2020	2021	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Development of a Mobile App for Citizen Science Noise Assessment		Industry	12	2020	2021	Dr Eoin King, University of Galway, eoin.king@nuigalway.ie
Development of next generation efficient high density DC power supplies with wide range output voltage		IRC	48	2017	2021	Dr Maeve Duffy, University of Galway, maeve.duffy@nuigalway.ie
Development of Novel Modular Timber Elements	www.nuigalway.ie/terg	EU Interreg Co-Innovate Programme	12	2022	2023	Dr Conan O'Ceallaigh, University of Galway, conan.oceallaigh@nuigalway.ie
Digital Academy for a Sustainable Built Environment (DASBE)	https://dasbe.ie/	HEA	60	2019	2024	Pat Barry, IGBC, pat@igbc.ie
Disproportionate collapse of reinforced concrete framed construction	https://people.ucd.ie/daniel.mccrum	International	48	2021	2025	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
DTIF MI-DRONE	https://www.nuigalway.ie/structures/projects/	Enterprise Ireland	24	2021	2023	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
EARTH	https://www.nuigalway.ie/terg/activeprojects/earthproject/	DAFM	24	2017	2019	Dr Conan O'Ceallaigh, University of Galway, conan.oceallaigh@nuigalway.ie
EASME-EMFF LEAPWind	https://cinea.ec.europa.eu/featured-projects/leapwind_en	EU H2020	24	2018	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
ECCopro		SEAI	6	2018	2018	Pat Barry, IGBC, pat@igbc.ie

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Electrofuels in a circular economy (EFACE)	https://www.sfi.ie/challenges/zero-emissions/eface/	SFI	14	2020	2021	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Elucidating levels and pathways of human exposure in Ireland to POP-BFRs and PFOS ELEVATE	www.nuigalway.ie/elevate	EPA	36	2016	2019	Dr Marie Coggins, University of Galway, marie.coggins@nuigalway.ie
Empower Data Governance Spoke	https://www.empower-datagovernance.ie/	SFI	48	2022	2026	Prof Ed Curry, University of Galway, edward.curry@nuigalway.ie
ENACT Retrofit		SEAI	36	2022	2025	Pat Barry, IGBC, pat@igbc.ie
Endoscopic outpatient Cancer Treatment platform (ENACT)		Enterprise Ireland DTIF	48	2022	2026	Dr Maeve Duffy, University of Galway, maeve.duffy@nuigalway.ie
ENERGE (energy efficiency in educational sector)		EU InterReg NWE	48	2019	2023	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
Energy Efficiency of Traditional Buildings		Department of Heritage	18	2020	2022	Pat Barry, IGBC, pat@igbc.ie
Energy Harvesting for Enhanced RFID Security	https://www.nuigalway.ie/science-engineering/engineering/electrical-and-electronic-engineering/research/perc/research_projects/	EI & HID Global	24	2020	2023	Dr Maeve Duffy, University of Galway, maeve.duffy@nuigalway.ie
Engineering Advanced Materials for Marine Energy and Aquaculture applications	https://www.nuigalway.ie/structures/projects/	SFI	30	2019	2021	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
ENGINEERING IRELAND TO 2040: INFRASTRUCTURE, TECHNOLOGY AND FUTURE SKILLS NEEDS	https://www.nuigalway.ie/structures/projects/	Enterprise Ireland	28	2018	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Environ.contamination of Irish soils and sediments with hazardous chem		EPA	36	2021	2023	Dr Marie Coggins, University of Galway, marie.coggins@nuigalway.ie
EPD Ireland	https://www.igbc.ie/epd-home/	EPA	18	2017	2019	Pat Barry, IGBC, pat@igbc.ie
ESPRC-SFI CENTRE FOR DOCTORAL TRAINING IN ENERGY RESILIENCE AND THE BUILT ENVIRONMENT	https://www.maree.ie/research/phd-programme/erbe-cdt/	SFI	96	2019	2027	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Expanding the alternative use and circularity potential of crops		Teagasc	48	2021	2025	Dr Richard O'Shea, UCC, richard.oshea@ucc.ie
FabTrads. Hygrothermal testing of traditional and historic building fabrics	https://www.ucd.ie/biace/projects/heritageconservationandtraditionalfabrics/	SEAI	36	2022	2025	Dr Oliver Kinnane, UCD, oliver.kinnane@ucd.ie

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F-CUBED: Biogenic residues' conversion for the bioenergy sector	https://www.f-cubed.eu/	EU H2020	60	2020	2023	Rory Monaghan , NUIG, Rory.monaghan@nuigalway.ie
Feasibility of Carbon Capture Utilisation and Storage (CCUS) in Ireland		SEAI	36	2020	2023	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Feasibility study on the suitability of PEEK carbon fibre composites for orthopaedic fracture fixation devices (MedComp)		Enterprise Ireland	12	2019	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
Flex4Fact	https://blog.sintef.com/sintefenergy/flex4fact-integrating-more-renewables-in-the-industry-energy-mix/	EU Horizon Europe	48	2021	2025	Dr Ken Bruton, UCC, ken.bruton@ucc.ie
FlexAqua	https://www.martera.eu/projects/flexaqua	EU Interreg Martera	36	2018	2021	Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
Full-Scale Testing of Foil for Commercial ORPC RivGen Device (ACCORD)	https://www.nuigalway.ie/structures/projects/accord/	SEAI	12	2018	2019	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Gencomm	https://www.nweurope.eu/projects/project-search/gencomm-generating-energy-secure-communities/	EU Interreg NWE	60	2017	2021	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
GeoBIM	https://www.esri.com/arcgis-blog/products/geobim/aec/arcgis-geobim-an-introduction/#:~:text=GeoBIM%20enables%20secure%20access%20to,your%20projects%20on%20the%20map!	Industry	24	2020	2022	Dr Ken Bruton, UCC, ken.bruton@ucc.ie
GEOFIT	https://geofit-project.eu/	EU H2020	48	2018	2022	Dr Marcus Keane, University of Galway, marcus.keane@nuigalway.ie
GLEEBE Machine- SFI infrastructure award		SFI	N/A	2021	2021	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
GreenHysland	https://greenhysland.eu/	EU FCHJU	60	2020	2025	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
H2020 CRIMSON	https://www.nuigalway.ie/structures/projects/crimson/	EU H2020	30	2021	2023	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
H2020 Proposal Prep - Aerodynamics in cycling: A pathway for innovation in engineering simulation.		Enterprise Ireland	9	2019	2020	Dr Magdalena Hajdukiewicz, University of Galway, magdalena.hajdukiewicz@nuigalway.ie
Health Impact Assessment of Deep Energy Renovations on Irish Domestic Dwellings - HAVEN	https://www.nuigalway.ie/haven/	SEAI	48	2020	2023	Dr Marie Coggins, NUIG, marie.coggins@nuigalway.ie

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HEATCHECK (Heating and Temperature Characteristics in Irish Buildings)	https://www.nuigalway.ie/structures/projects/heatcheck/	SEAI	36	2021	2023	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
HI-ECOWIRE - High quality ecoefficient magnet wire	https://www.nweurope.eu/projects/project-search/hi-ecowire-high-quality-ecoefficient-magnet-wire/	EU INTERREG IV	42	2020	2023	hi-ecowire@materianova.be
High Performance Thermoplastic Composite Pipeline Development with Automated Tape Placement (ATP) Technology - 'ATP Pipeline' - for Energy Industry Applications		EU H2020	40	2019	2022	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
High Value Sustainable Renewable Fuels and Bio-Products from Forest Residues in Ireland		SEAI	24	2020	2021	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
HPI	https://homeperformanceindex.ie/	EPA	24	2017	2019	Pat Barry, IGBC, pat@igbc.ie
HyLIGHT	https://www.marei.ie/project/hyilight/	SFI	36	2021	2024	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
IMPROVING THE EFFICIENCY OF MANUFACTURING WIND AND TIDAL TURBINE BLADES	https://www.nuigalway.ie/structures/projects/	SFI	12	2017	2018	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
INDOOR AIR QUALITY, VENTILATION AND OCCUPANT COMFORT IN IRISH DOMESTIC DWELLINGS PRE AND POST DEEP ENERGY RENOVATIONS (ARDEN)	https://www.nuigalway.ie/arden/	SEAI	48	2018	2022	Dr Marie Coggins, NUIG, marie.coggins@nuigalway.ie
InFutUReWood	https://www.infuturewood.info/	EU H2020	36	2019	2022	Annette M Harte, NUIG, Annette.harte@nuigalway.ie
Intelligent Data Harvesting		SFI	36	2021	2024	Dr James O'Donnell, UCD, james.odonnell@ucd.ie
IRC ENTERPRISE PARTNERSHIP POSTGRADUATE SCHOLARSHIP 2016 - KEVIN O' DWYER - EXPLORING OPTIMUM USE OF LUBRICATION IN THE MICROTUNNELLING PROCESS USING LABORATORY PHYSICAL AND NUMERICAL MODELLING		IRC	48	2018	2021	Dr Bryan McCabe, University of Galway, bryan.mccabe@nuigalway.ie
IRC ENTERPRISE PARTNERSHIP POSTGRADUATE SCHOLARSHIP 2017 ALESSANDRO PICCININI - KNOWLEDGE-BASED ASSESSMENT TOOLS TO SUPPORT DEEP ENERGY RETROFIT QUALITY ASSURANCE AND CERTIFICATION SCHEMES		IRC	48	2018	2021	Dr Marcus Keane, University of Galway, marcus.keane@nuigalway.ie
IRC POSTGRADUATE SCHOLARSHIP 2018 - Wenyou Zhang - Microstructural Characterisation of Powder Bed Fusion Manufactured Ti6Al4V Components		IRC	24	2018	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
Irish Sea Study		MI	24	2018	2020	Dr Michael O'Shea, UCC, michaeloshea@ucc.ie

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Knowledge Transfer Partnership with Masonry Support Systems Limited (NI)	https://www.ktp-uk.org/case-study/engineering-excellence-finalist-masonry-support-systems-queens-university-belfast-ktp-associate-emanuele-scarabino/	Innovate UK	24	2017	2019	Prof Daniel McCrum, UCD, daniel.mccrum@ucd.ie
LEAPWind - Leading Edged Advanced Protection using novel thermoplastic materials and processes for offshore Wind turbine blades	https://www.nuigalway.ie/structures/projects/leapwind/	EU H2020	24	2019	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
LifeLevel(s)	https://lifelevels.eu/	EU Life	36	2019	2022	Pat Barry, IGBC, pat@igbc.ie
MacAirh	https://www.ucd.ie/biace/projects/heatpumps/	SEAI	36	2022	2025	Dr Oliver Kinnane, UCD, oliver.kinnane@ucd.ie
MaREI PhD Programme	https://www.marei.ie/	SFI	48	2018	2025	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
MaREI SEFE SPOKE - ARIGNA FUELS - INDUSTRY CONTRIBUTION		Industry	20	2017	2019	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
MaREI SEFE SPOKE - ARIGNA FUELS - SFI		SFI	20	2017	2019	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
MaREI SEFE SPOKE - SIEMENS CANADA LIMITED - SFI - RORY MONAGHAN - Towards reliable chemical kinetic mechanisms to describe NOx formation in hydrogen, syngas, natural gas and larger fuel oxidation		SFI	55	2017	2022	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
MaREI Spoke - Improving and Validating Sustainable Energy Recovery in a Modular Local Distributed Energy System - SFI Contribution - Rory Monaghan		SFI	52	2018	2022	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
MaREI Spoke Award - Brash to Bioproducts - Coillte		Industry	18	2018	2019	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Marine Enabled Superconductor Cable Systems – Phase 1	https://www.marei.ie/project/supernode/	Industry	12	2020	2021	Dr Michael O'Shea, UCC, michaeloshea@ucc.ie
MaRINET2	https://www.nuigalway.ie/structures/projects/marinet2/	EU H2020	48	2018	2022	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
MARS-Fly		SFI	36	2017	2022	Dr Patrick J. McGetrick, UCD, patrick.mcgetrick@nuigalway.ie
MATERIAL CHARACTERISATION AND LOADING ANALYSIS FOR THE AMPYX POWER AIRBORNE WIND ENERGY SYSTEM	https://www.nuigalway.ie/structures/projects/ampyxpower/	SFI	12	2019	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie

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METABUILDING Labs	https://cordis.europa.eu/project/id/953193	EU H2020	60	2021	2026	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Modular mass timber building for the circular economy (MODCONS)	https://www.nuigalway.ie/terg/modcons/	DAFM	50	2020	2024	Dr Patrick McGetrick, University of Galway, patrick.mcgetrick@nuigalway.ie
Molloy Precast Products Ltd IV - Evaluation of Coconut Husk Material in treatment of effluent		Enterprise Ireland	12	2019	2020	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
NEPTUNUS - Water-Energy-Seafood Nexus: Eco-Innovation and Circular Economy Strategies in the Atlantic Area	https://neptunus-project.eu/	EU INTERREG IV	30	2019	2022	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
NeuroSHM		Industry	12	2020	2021	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
NexSys	https://www.nexsys-energy.ie/	SFI	60	2022	2027	Dr James O'Donnell, UCD, james.odonnell@ucd.ie
NexSys	https://www.nexsys-energy.ie/	SFI	60	2022	2027	Dr Paraic Ryan, UCC, Paraic.ryan@ucc.ie
NexSys	https://www.nexsys-energy.ie/	SFI	60	2022	2027	Prof Breiffni Fitzgerald, TCD, Breiffni.fitzgerald@tcd.ie
NexSys	https://www.nexsys-energy.ie/	Industry	60	2022	2027	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
NI H2 strategy	https://www.nweurope.eu/media/13425/hydrogen-exploring-opportunities-in-the-northern-ireland-energy-transition-march-2021.pdf	NI Dept of Econ	3	2021	2021	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Novel CONnection design and modelling idealisations utilising CATENary acTION in the disproportionate collapse resistance mechanism of cold-formed steel panelised structures (ConCatenaTion)	https://cordis.europa.eu/project/id/101029972	EU H2020	24	2022	2024	Daniel McCrum, UCD, daniel.mccrum@ucd.ie
nZEB101	https://www.ucd.ie/biace/projects/nearzeroenergybuildingsnzeb/	SEAI	36	2018	2021	Dr Oliver Kinnane, UCD, oliver.kinnane@ucd.ie
OARPS		SEAI	24	2020	2021	Dr Michael O'Shea, UCC, michaeloshea@ucc.ie
Opportunities for Green Public Procurement to improve implementation of circular practice (Opps4GPP)	https://www.nuigalway.ie/terg/opp4gpp/	EPA	36	2022	2025	Dr Patrick McGetrick, University of Galway, patrick.mcgetrick@nuigalway.ie
OPPORTUNITIES FOR HYDROGEN IN NORTHERN IRELAND		International	2	2020	2020	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Optimisation Models to Enhance the Resilience of Transport Network in the event of an emergency.		Internal	48	2020	2024	Beatriz Martinez-Pastor, UCD, beatriz.martinez-pastor@gmail.com

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Pervasive engineering simulation for IEQ in buildings.		Internal	24	2021	2022	Dr Magdalena Hajdukiewicz, University of Galway, magdalena.hajdukiewicz@nuigalway.ie
PEST-MAN	https://www.pestman.ie/	EPA	48	2020	2023	Dr Paraic Ryan, UCC, Paraic.ryan@ucc.ie
Premier Green Holdings - Industry Portion MaREI Spoke - Improving and Validating Sustainable Energy Recovery in a Modular Local Distributed Energy System		Industry	12	2018	2019	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Preparedness and Resilience Enforcement for Critical Infrastructure Cascading Cyberphysical Threats and effects with focus on district or regional protection (PRECINCT)	https://www.precinct.info/	EU H2020	24	2021	2023	Daniel McCrum, UCD, daniel.mccrum@ucd.ie
PROBONO - The Integrator-centric approach for connected sustainable green neighbourhoods	https://cordis.europa.eu/project/id/101037075	EU H2020	60	2022	2027	Philip Crowe, UCD, philip.crowe1@ucd.ie
PROCESS OPTIMISATION OF CONTINUOUS AND CHOPPED BASALT FIBRE BASED THERMOPLASTIC COMPOSITES - SurfEng Basaplast		Enterprise Ireland	14	2019	2020	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
PUTNEY COMBINED SEWER OVERFLOW INTERCEPT PHYSICAL MODEL INVESTIGATION - HYDRAULIC MODEL VALIDATION OF THE EQUIPMENT		Industry	14	2017	2019	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
REACT	https://react2020.eu/	EU H2020	48	2019	2022	Dr Marcus Keane, University of Galway, marcus.keane@nuigalway.ie
REBLADE	https://www.nuigalway.ie/structures/projects/	SEAI	24	2022	2024	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
REMOTEWIND		SEAI	36	2022	2024	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
RESPOND	https://cordis.europa.eu/project/id/768619	EU H2020	48	2017	2020	Dr Marcus Keane, University of Galway, marcus.keane@nuigalway.ie
Ripple: Making connections between water and climate change in our towns		Creative Ireland	12	2022	2022	Prof Philip Crowe, UCD, philip.crowe1@ucd.ie
Ropes		SFI	36	2017	2020	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
SAOLWood	https://www.nuigalway.ie/terg/saolwood/	DAFM	48	2022	2026	Dr Patrick McGetrick, University of Galway, patrick.mcgetrick@nuigalway.ie
SCORE	https://www.marei.ie/project/core/	EU H2020	48	2021	2025	Dr Michael O'Shea, UCC, michaeloshea@ucc.ie
Screening of the Irish Waste Stream for Persistent Organic Chemicals	https://www.nuigalway.ie/safer/	EPA	40	2019	2022	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie

Sample recent and current R&D projects completed by the ConstructInnovate research team (2017-2022) Updated 22 June 2022

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SEABLADE	https://www.nuigalway.ie/structures/projects/seablade/	Ocean ERA-Net	27	2018	2020	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Secondary Exposure to Aerosol Emitted during Respiratory Therapy		SFI	12	2018	2019	Dr James McGrath, University of Galway, James.a.mcgrath@nuigalway.ie
SEMPRE (DTIF)	https://www.mmrc.ul.ie/dotnetnuke/mmrc/Research/PROJECTS/SEMPREproject.aspx	Enterprise Ireland	36	2021	2024	Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
SINERGY	https://project-sinergy.org/Partners	Enterprise Ireland	36	2021	2023	Luis Miguel Blanes Restoy, NUIG, Luismiguel.blanesrestoy@nuigalway.ie
SIRMA	https://sirma-project.eu/	EU Interreg Atlantic	36	2019	2021	Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
Smarter finance	https://cordis.europa.eu/project/id/847141	EU H2020	48	2019	2021	Pat Barry, IGBC, pat@igbc.ie
SPHERE	https://cordis.europa.eu/project/id/820805	EU H2020	60	2018	2022	Federico Seri, NUIG, federico.seri@nuigalway.ie
SPOTBlade	https://www.nuigalway.ie/structures/projects/	SEAI	48	2022	2025	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Storage of Energy & Power Systems in NWE (STEPS)	https://www.nweurope.eu/projects/project-search/steps-storage-of-energy-power-systems-in-nwe/	EU Interreg NWE	36	2020	2023	Maeve Duffy, NUIG, Maeve.duffy@nuigalway.ie
Structural, environmental and energy performance of non-residential buildings	https://www.nuigalway.ie/structures/projects/	SFI	12	2019	2019	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Suricates	https://www.nweurope.eu/projects/project-search/suricates-sediment-uses-as-resources-in-circular-and-territorial-economies/	EU InterRegIV	72	2018	2023	Dr Frances Judge, UCC, frances.judge@ucc.ie
Sustainability in Enterprise: Meeting the Challenges of the Future	https://gradireland.com/courses/sustainability-enterprise-49093	HEA	36	2020	2023	Dr Marguerite Nyhan, UCC, marguerite.nyhan@ucc.ie
Sustainable Additive Manufacturing of Orthopaedic Implants		SFI	24	2022	2023	Dr Noel Harrison, University of Galway, noel.harrison@nuigalway.ie
Sustainable Futures	https://www.ucc.ie/en/sustainable-futures/	HEA	48	2021	2024	Dr Marguerite Nyhan, UCC, marguerite.nyhan@ucc.ie
Sustainable On Water Living Feasibility Study		Industry	6	2021	2021	Ciarán Hanley, UCC, chanley@ucc.ie

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Teamer		US DOE	24	2021	2022	Dr Michael O'Shea, UCC, michaeloshea@ucc.ie
Testing and classification of high-performance materials to protect wind turbine blades from leading-edge erosion by droplet impingement (BladeLEP)	https://www.nuigalway.ie/structures/projects/bladelep/	SEAI	27	2020	2022	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
THE AERATION IN-USE FACTOR: THE IN-USE AERATION ENERGY EFFICIENCY OF TWO TECHNOLOGIES IN THE WASTEWATER TREATMENT INDUSTRY		SEAI	16	2018	2020	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
The development of tools to quantify the ecosystem services provided by the shellfish aquaculture sector in Ireland		BIM	12	2021	2022	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
The influence of structural design on the environmental and energy performance of non-residential buildings	https://www.nuigalway.ie/structures/projects/	SFI	12	2019	2019	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
The Journey to a Sustainable Distillery		SFI	36	2019	2022	Dr Richard O'Shea, UCC, richard.oshea@ucc.ie
The relationship between Radon and Ventilation in retrofitted buildings: experimental validation of model predictions		SEAI	4	2017	2017	Dr Miriam Byrne, University of Galway, miriam.byrne@nuigalway.ie
TRA2024: Transport Research Arena in Dublin	https://www.tii.ie/technical-services/research/road-to-tra2024/	EU H2020	30	2022	2024	Ciaran McNally, UCD, ciaran.mcnally@ucd.ie
TRAINING GEEC MEMBERS & EQUIPMENT PURCHASE		Internal	9	2019	2020	Dr Rory Monaghan, University of Galway, rory.monaghan@nuigalway.ie
Transforming Transport		EU H2020	30	2017	2019	Prof Ed Curry, University of Galway, edward.curry@nuigalway.ie
Translate	https://www.marei.ie/project/translate/	Met Eireann	24	2021	2023	Dr Paraic Ryan, UCC, Paraic.ryan@ucc.ie
TurbineFatigue		IRC	36	2017	2020	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
Turnkey Retrofit	https://www.nuigalway.ie/structures/projects/turnkeyretrofit/	EU H2020	32	2019	2022	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
Turnkey Retrofit	https://www.turnkey-retrofit.eu/	EU H2020	32	2019	2022	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie
TWINFARM		SEAI	36	2022	2024	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
UpfrontCO2	https://www.nuigalway.ie/structures/projects/	SEAI	12	2022	2023	Prof Jamie Goggins, University of Galway, jamie.goggins@nuigalway.ie

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UpfrontCO2	https://www.nuigalway.ie/structures/projects/	SEAI	12	2022	2023	Pat Barry, IGBC, pat@igbc.ie
Use of by-products from the alcohol industry to reduce the carbon footprint of alcohols produced		SFI	12	2020	2021	Dr Richard O'Shea, UCC, richard.oshea@ucc.ie
VORTECH WATER SOLUTIONS LTD IV: DEVELOPMENT OF AUTOMATED AERATION CONTROL PROTOCOLS BASED USING DATA SETS FROM EXISTING VPA INSTALLATIONS	https://vortechws.com/projects/	Enterprise Ireland	12	2020	2021	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
VORTEX POWER AERATOR: AN ALTERNATIVE AERATION AND ENERGY RECOVERY DEVICE FOR THE WASTEWATER TREATMENT INDUSTRY - STAGE 2	https://vortechws.com/vortex-powered-aeration/	Enterprise Ireland	12	2018	2019	Dr Eoghan Clifford, University of Galway, eoghan.clifford@nuigalway.ie
WindLEDeRR	https://www.marei.ie/project/windlederr/	SEAI	26	2021	2024	Prof Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
WindPearl	https://www.windpearl.net/	SEAI	36	2018	2022	Vikram Pakrashi, UCD, Vikram.Pakrashi@ucd.ie
WIRELESS POWER HARVESTING		Enterprise Ireland	9	2019	2019	Dr Maeve Duffy, University of Galway, maeve.duffy@nuigalway.ie
WoodProps Programme	https://www.nuigalway.ie/terg/activeprojects/woodprops/	DAFM	36	2017	2021	Dr Conan O'Ceallaigh, University of Galway, conan.oceallaigh@nuigalway.ie
WoodProps2	https://www.nuigalway.ie/terg/activeprojects/woodprops/	DAFM	24	2021	2023	Dr Conan O'Ceallaigh, University of Galway, conan.oceallaigh@nuigalway.ie
WoodSpec – Review and eLearning Update	https://www.nuigalway.ie/terg/activeprojects/	DAFM	12	2022	2023	Dr Conan O'Ceallaigh, University of Galway, conan.oceallaigh@nuigalway.ie