

INNOVATION VOUCHERS INITIATIVE

Waterford Institute of Technology
Waterford Institute of Technology, Cork Road, Waterford

DIRECTORY OF SKILLS AND EXPERTISE



College Contact Point for Innovation Voucher Enquires:

Kieran Sullivan

051 834026

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Department/Unit	Specific services offered	Contact Name	Address	Telephone	E-Mail address
Telecommunications Software and Systems Group (TSSG)	<ul style="list-style-type: none">• System, process and technology evaluation• Technology market analysis• System usability analysis• Technology development roadmaps• Software development• Website optimisation• VOIP system evaluation, design and implementation• Mobile technologies and applications	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Flexible Wireless Research Group	<ul style="list-style-type: none">• Fixed and mobile wireless communications• Alternative energy system design and control• Remote system control• Electronic system design and	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie

	software integration				
Microelectronics & Systems	<ul style="list-style-type: none"> • Research and design of custom, integrated circuits (ICs) • Sensing technologies • Signal processing employing low power and low voltage circuit techniques. • Data conversion and analogue signal processing. • Embedded systems 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Engineering	<ul style="list-style-type: none"> • Information systems • Business process analysis • System evaluation • Software-hardware integration • Mobile applications • Parallel computing 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Microelectronics and Systems Research Group	<ul style="list-style-type: none"> • Sensor design (admittance, impedance, optical, etc) for temperature, pressure, level, proximity sensing, etc. • Analog signal conditioning circuit design • Digital signal processing • Embedded system design using latest generation of microcontrollers • Programmable system on chip • Wireless & remote sensor design • Small area wireless network • PCB and prototype design • General electronic circuit design 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Computer Science	<ul style="list-style-type: none"> • Specialised internet search • Multimedia applications 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Business	<ul style="list-style-type: none"> • Market analysis • Focus groups and customer surveys • Idea generation processes • Creativity audit 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie

	<ul style="list-style-type: none"> • Innovation and knowledge transfer management • Management capability audit and development • Business planning and strategic awareness • Customer relationship management • Change management 				
Optics Research Group	<ul style="list-style-type: none"> • Expertise in areas of optics and photonics including high brightness sources, Raman fibre devices, quantum dot dynamics, erbium amplifiers and Bragg sensors. 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Construction & Civil Engineering	<ul style="list-style-type: none"> • Construction processes and products 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Applied Materials Research	<ul style="list-style-type: none"> • X-ray tomography: Non-destructive 3-D examination of materials and products • Microwave processing and remediation of materials • Mathematical modeling of magnetically targeted nanoparticles in biomedicine 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie
Pharmaceutical & Molecular Biotechnology Research Centre (PMBRC)	<ul style="list-style-type: none"> • Core competencies in separation science, polymer science, molecular biotechnology, nanotechnology and biomedical science. • State-of-the-art 700m2 laboratory facility • Expertise in chemical, pharmaceutical and biomedical research • Links to international experts and specialists in the Pharma, Biopharma & Biotech sectors. 	Kieran Sullivan	As above	051 834026	ksullivan@wit.ie

	<ul style="list-style-type: none"> • Associated research groups include: <ul style="list-style-type: none"> ○ Biofuel Research Cluster ○ Biomedical Research Cluster ○ Polymer Mediated Sensing Research Group ○ Listeria Research Group ○ Molecular Biology Research Group ○ Nanotechnology Research Group ○ Separation Science Research Group ○ Surface Science Research Group 				
Eco-Innovation Research Centre (EIRC)	<ul style="list-style-type: none"> • Development of new products, technologies, services and processes that contribute to sustainable development • Analytical Capabilities: <ul style="list-style-type: none"> ○ Microwave Digestion for Heavy Metal Analysis ○ Controlled Environmental Testing – Temperature & Light ○ Surface Characterisation – SEM, AFM, Nitrogen Sorption Analysis, Particle Size Analysis ○ Separation Science – GC/MS, LC/MS, Rapid Resolution LC, CE ○ Spectroscopy – NMR, FTIR (including FTIR Microscopy), UV/Vis, Inductively Coupled Plasma (ICP-OES), AAS ○ DNA Sequencer, Real- 	Tom Corcoran	As above	051 834026	ksullivan@wit.ie

	<p>time PCR</p> <ul style="list-style-type: none">• Associated research groups include:<ul style="list-style-type: none">○ Estuarine Research Group (ERG) Bioremediation of toxic heavy metals using seaweed biomass; Environmental biomonitoring; Isolation of bioactive compounds from sustainable marine sources○ Forestry Research Group (FRG) – Wood energy; Vegetation management; Invasive species management; Traditional & novel control methods, including biological control○ Molecular Ecology Research Group (MERG) – Development of novel DNA identification techniques for mammals○ Sustainable Agriculture Research Group (SARG) - Biofuel research; Agri-environmental management				
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