

Electronics Software ICT



Creativity is thinking up new things. Innovation is doing new things.

Theodore Levitt

If your business is Electronics, Software and ICT... InnoTech offers the expertise that enables you to unlock innovation and creativity through technology and advanced management practice. Innovation can help bring new ideas to fruition and allow you to take that quantum leap forward.

Innovation thinking in Electronics, Software and ICT has evolved. Innovation is as likely to come from users as from formal R&D programmes. Innovation can destroy old ways of working. It is subversive, challenging, rewarding. Adopting new technology in Electronics, Software and ICTs can transform your organisation. You. Thinking. Creating. Doing.

Designing, Innovating

We specialise in researching and designing technologies and equipment across financial services, media, engineering, engineering and electronics industries. Our work to date covers services and products for process, electronic, engineering and virtual learning platforms. Synergies with our Design and Sustainability strands provide a unique level of specialist expertise.

Exchanging, Transferring

As part of an international network, InnoTech is exposed to the latest thinking and practice in research and development. InnoTech acts as a catalyst for organisations wishing to adopt innovation to achieve a competitive advantage in the marketplace. We transfer international expertise to local business and industry, and provide specialist mentoring and assistance and practical technological support.

Assisting, Solving

The term best practice is much overused, but it truly describes the technological knowledge and management solutions we bring to industrial problems to drive adoption of leading edge Electronics, Software and ICT.



Innovation is the process of turning ideas into manufacturable and marketable form.

Watts Humphrey

Specialising, Designing

Our team comprises highly skilled specialists in database development, software engineering, software testing, web design and development, e-commerce, web portals, 3D virtual learning environments (VLEs), and content management.

In driving innovation diffusion and technology adoption, we offer support and mentoring to businesses and entrepreneurs. A critical success factor is enhanced professional relationships and networks. That means us, working alongside SMEs, developing solutions that meet your needs.

Key Strengths

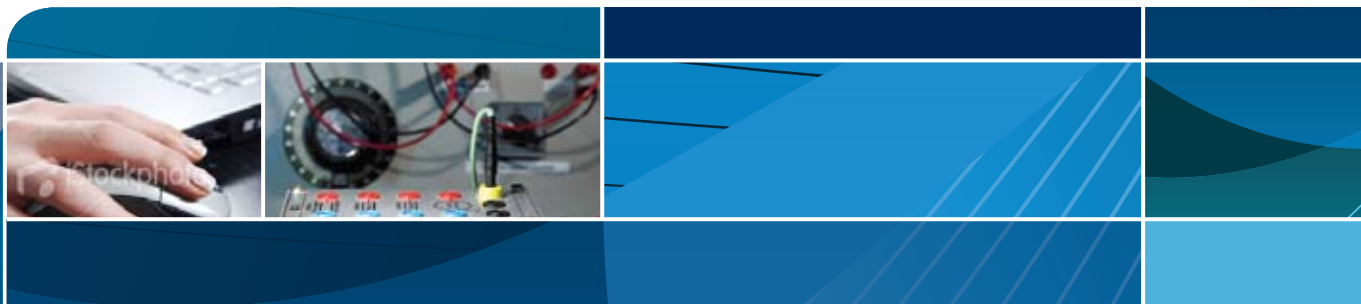
- Software development for various databases including Oracle platform in PHP/SQL/PLSQL language.
- Software development for handheld devices such as personal digital assistant (PDAs) and various mobile phone platforms e.g Apple iPhone.
- Web development using various types of content management systems and building E-commerce websites using the latest functionality methods and techniques.
- Website advertising and marketing tools.
- Publication design and development for printing.
- Integration of multimedia techniques
- Research/Mentoring and development of innovative technology ideas.
- Training in database usage and the development of user manuals for step by step instructions on any of the above services.
- SMART systems and sensor integration.
- Radio Frequency Identification (RFID) applications.
- Training and mentoring and design in all aspects of Electronics, Software or ICT solutions.
- Advice on Intellectual Property Rights including IP protection, patenting and licensing.
- Advice on CE marking
- Continuous professional development and bespoke training in Electronics, Software or ICT with flexible delivery options.
- Electronic schematics and circuits design. Concept to prototype with built in validation and testing for system design, schematic generation, printed circuit board (PCB) layout and production.
- High-tech equipment for PLC and scada training.

Electronics, Software and ICT at The InnoTech Centre.
Helping you solve your problems.
What ideas are you playing with?

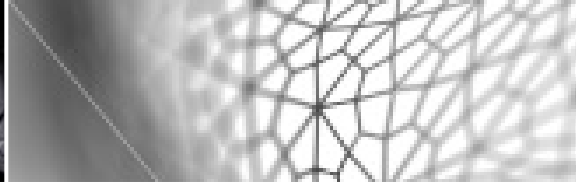
The art of the
Possible
Thinking. Creating. Doing.



The InnoTech Centre is financed by the Department for Employment and Learning (DEL) through its Innovation Fund Employer Support Programme.



Design



**Since we live in an age of innovation,
a practical education must prepare a
man for work that does not yet exist
and cannot yet be clearly defined.**

Peter Drucker

**Design at InnoTech can help your company unlock innovation and creativity.
Innovation may be driven by technology but its impact is cultural.
It is disruptive, but challenging and exciting.**

By bringing innovation thinking and design directly to you, we can help you create solutions and enable you to do things in a different way. New product design, new processes, new management thinking.
You. Thinking. Creating. Doing.

Designing, Innovating

We specialise in helping you create new ideas for the future – by research and by designing new technologies and equipment. Our approach to innovation and our design skills apply to any industry. So far this includes quarrying, engineering and electronics. Synergy with other InnoTech strands - **Sustainability and Electronics, Software and ICT** – allows previously unthought-of levels of innovation and development.

Transferring, Exchanging

At Design @ InnoTech we are part of a network of international partners expert in cutting edge design and manufacturing technologies. We are a catalyst for transferring international expertise to local business and industry and providing practical technological support to allow commercialisation and product development.

Our support services transfer national and international thinking in design and manufacturing concepts and technology. Us. Thinking. Creating. Doing.

**Helping local business and industry.
Helping You.**



If you do not expect the unexpected you will not find it, for it is not to be reached by search or trail.

Heraclitus

Assisting, Tailoring

Our entire focus is on assisting our clients develop a concept that is tailored to their particular problem – we have particular skills in designing for product, process, electronic, engineering, architectural, furniture, interior and graphic design. Our creativity and diversity provides our clients with a competitive advantage.

Prototyping, Simulating

Good innovation lies with technologies for simulating, prototyping and modelling products and services that can be made and brought to the marketplace. InnoTech offers rapid prototyping facilities to generate full colour 3D models and plastic ABS 3D models. We also offer mechanical and wood prototyping with in-house access to manufacturing equipment such as 5-Axis CNC, milling machines and lathes.

We design electronic schematics and circuits. From system design, schematic generation, printed circuit board (PCB) layout and production to testing and validation we have the ability to take your design through from concept to working prototype.

Design at InnoTech has the capability to reverse engineer designs through 3D portable scanning equipment and also manual measurement to generate 3D CAD designs and models.

We can advise on many services, these include:

- Materials and mechanical testing.
- Training and mentoring and design in all aspects of design, prototyping and reverse engineering solutions.
- Advice on Intellectual Property Rights including IP protection, patenting and licensing.
- Advice on CE marking.

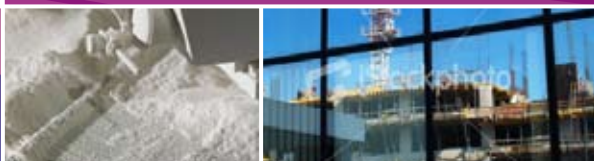
The Centre offers continuous professional development and bespoke training in various aspects of Design, where we can offer flexible delivery options and also link them to applications such as 3D modelling and rapid prototyping.

Design at The InnoTech Centre.
Helping you solve your problems.
What ideas are you playing with?

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Sustainability



**To raise new questions, new possibilities,
to regard old problems from a new angle,
requires creative imagination and marks
real advance in science.**

Albert Einstein

The Sustainability strand at InnoTech Centre provides the expertise for businesses and entrepreneurs to bring innovative ideas to reality. The key to business innovation is a culture of experimentation and risk-taking.

Through cutting edge R&D we are nurturing innovation, driving technological development and building management practice to solve industrial problems.

Sustaining, Developing

Developing sustainability is a key challenge for any modern business. Practices and processes have evolved dramatically and organisations are increasingly aware of the requirement to deliver on sustainability. The results are multiple opportunities for the creation of innovative sustainable technologies. InnoTech has direct experience in this field. Together with local business. **Thinking. Creating. Doing.**

Sustainability is South West College's main area of specialism and has been a focus of

intensive R&D for over five years, developed by applying renewable technologies at college and with industry partners.

Designing, Installing

The college has played a major role in the design and installation of many renewable technologies. Installed demonstrators include:

- Anaerobic Digestion: 212m³ digester, 40kWe genset.
- Biomass boilers (and associated handling systems): 150kWh & 250kWh willow.
- Wind turbine: 20kWe.
- Solar Photovoltaics: 2kWe.
- Ground source heat pump: 5kWh.
- Solar water heating: 10kWh.



In every work of genius, we recognise our once rejected thoughts.

Ralph Waldo Emerson

InnoTech specialises in applying new technologies in support of the agriculture, quarrying, engineering/manufacturing, construction and electronic industries. Allied with leading edge expertise in Design and Electronics/Software/ICT, InnoTech offers an unparalleled advantage to local business.

Training, Educating

The Centre can also provide continuous professional development and bespoke training in various aspects of sustainability.

Through the South West College InnoTech offers a Foundation Degree in Sustainability which includes modules in Business, Renewable Energy, Waste Management, Environmental Management and Energy Efficiency.

Through its focus in the area of renewables, the college provides training in the areas of Wind Turbine and Biomass Boiler installation. The college is the only accredited supplier of wind turbine installation training in Ireland. Bespoke training courses have been developed for businesses covering their specific areas of interest, these courses have resulted in increased uptake of renewable technology and the creation of new environmentally focused businesses within the college's catchment area.

Sustainability at The InnoTech Centre.
Helping you solve your problems.
What ideas are you playing with?

Networking, Transferring

InnoTech is part of an international network considering sustainability issues. Through strategic partnerships sustainability at InnoTech delivers technical support services aimed at transferring national and international best practise in current and next generation technologies including deriving energy from waste, renewables, eco-building products and carbon footprint reduction.

Our experience in Tech-transfer has resulted in the installation of biomass boilers, wind turbines, anaerobic digestion and in vessel composting technologies.

The InnoTech Centre can offer assistance in design and installation of renewable energy (hydro, wind, solar PV and water heating and biomass), growing and utilisation of biomass products, energy from waste, Combined Heat and Power (CHP), carbon footprinting, sustainability policy writing for your business, eco-building design and products, composting technology and custom product development and design.

Within the sustainability strand we have graduates in science, engineering and geography. This allows the InnoTech Centre to offer services in a wide range of sustainability areas from environmental management to renewable technology design.

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