

RURAL RENEWABLES

South West College, Omagh

October 20th 2011

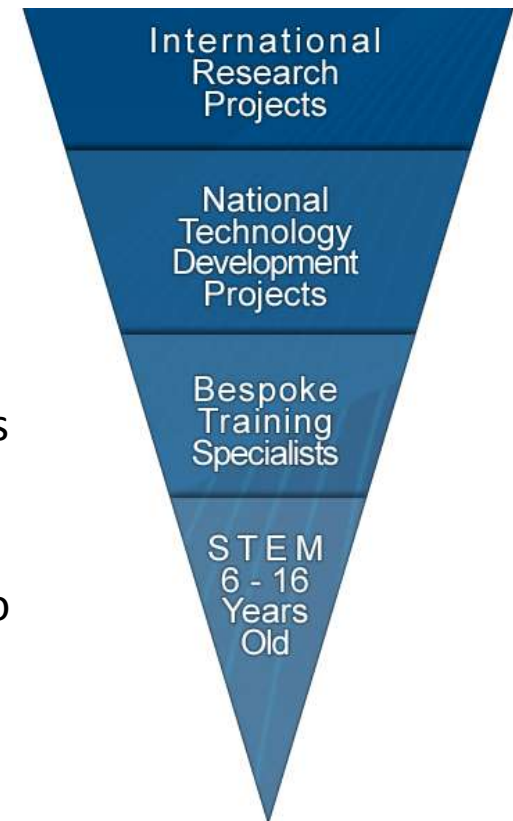
Welcome to InnoTech Centre

Aaron Black

InnoTech Centre

InnoTech Centre Overview

- Broaden the **international reach** of the College
- Develop capacity to deliver high quality **industrial knowledge transfer and technology development**
- Extend the capability of the College to deliver **bespoke training** and technical mentoring to industry in priority skills areas
- Increase the number of students in South West College who are studying courses in the area of **Science, Technology, Engineering and Mathematics (STEM)**



- Key Activities
 - Engagement with employers
 - Supporting entrepreneurial activity
 - Industry r&D



InnoTech Centre Overview



ELECTRONICS



SUSTAINABILITY



DESIGN



Fermanagh



- Electronics / Software
- Sustainability
- Design
- Technical Tourism

- Renewable Energy
 - Wind, Hydro, Biomass, Solar PV and Water Heating
- Eco-Building
 - Products, Designs, Concepts
- Waste Management
 - Anaerobic Digestion system design and operation
- Business Sustainability
 - Energy use, waste products, water use, procurement

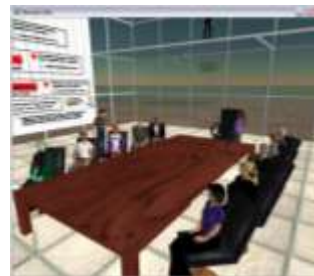


- Concept design and development
 - Graphic, Mechanical, Architectural, Furniture, Industrial, Product
 - Concept sketching, 2D and 3D CAD
 - Materials and mechanical testing
- Rapid prototyping
 - Full colour and plastic 3D models
 - Mechanical prototyping
 - Wood prototyping
- Reverse Engineering
 - 3D Scanning



Electronics, Software and ICT

- Electronic design
 - Schematic, circuits, system and PCB design
- SMART systems and sensor integration
 - RFID applications
- Web design and development including e-commerce
- Software development and testing
 - Handheld devices mobile platforms
- Database Development
- Developments of 3D Virtual learning Environments



- Invest NI/Enterprise Ireland Innovation Vouchers
- Engineering Innovation Programmes
- Dungannon Innovation Promoters Programme – partnership with UU
- Dungannon SME Innovation programme
- Noribic iFactory
- Tradelinks
- KTP / Fusion

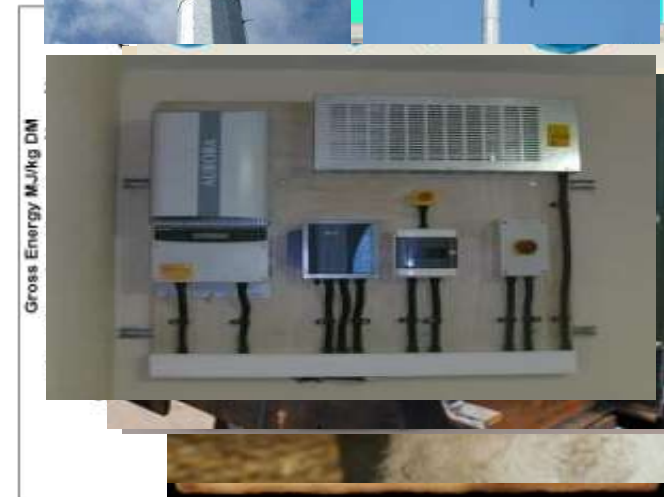
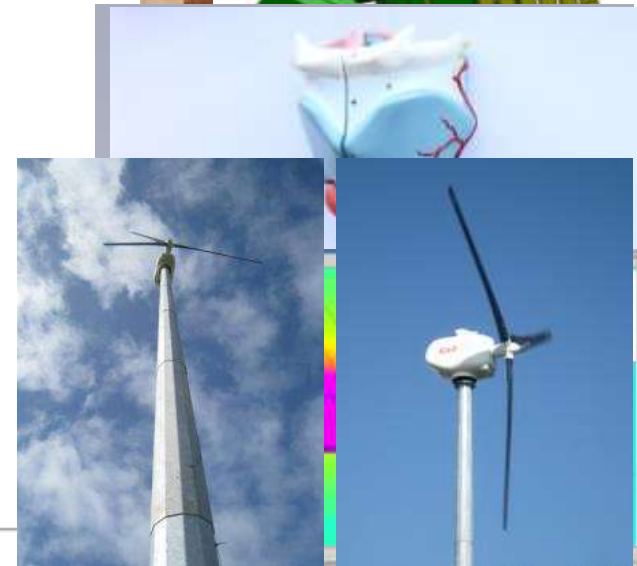


InnoTech Case Studies

InnoTech Case Studies



- Countryside Services - Dungannon
 - Sheep tag applicator design
- Bladehold – Cookstown
 - Circular saw bladeholder design
- Cardwell Bros Eng – Cookstown
 - Tyre shredder engineering design
- Tru Corp - Belfast
 - Medical device training unit design
- Mainplant Engineering – Galbally
 - Electrical engineering research and development
- Awakin – Belfast
 - Titanic iPad & iPhone Development
- NGS - Galway
 - Wind turbine controller research and development
- Farm Woodlands - Augher



Achievements to date

- 170 R&D projects completed & on-going
 - 77 Innovation voucher projects (68 INI & 9 EI)
 - 12 Projects on CEIP; 18 Business in Dungannon IP
 - KTP with JPM Trailers
- Highly Commended Award at UTV Business Eye Awards in November 2009
- Sustainable Ireland Magazine - Leadership in Sustainable Development (Finalist) – 2010
- Design Council UK Grant Award Feb 2011
- ETI Inspection – Grade 1 – Outstanding - January 2011
- Shortlisted for Beacon Award – Employer Engagement & STEM
- Shortlisted for 6th International Green Awards 2011 – Sustainable Education
- **NPV to economy of over £4 million**



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