



University of
Nottingham

UK | CHINA | MALAYSIA

Energy for Business

**Innovate & Collaborate with
the University of Nottingham**

Dr. Laura Porcu
Energy Innovation and Collaboration team



Our support:

- Reduce your operating costs
- Develop new, low-carbon, products and services to grow your business
- Build new partnerships for research and development and commercialisation
- Reduce CO₂ emissions and increase your sustainability
- Access further development funds with support for grant applications

Innovative SMEs can access support as part of a £3.2M programme supported by the European Regional Development Fund

For SMEs based in D2N2:
Derby,
Derbyshire,
Nottingham,
Nottinghamshire

3 year project
lifetime:
2016-2019

Supporting the
“Shift Towards a
Low Carbon
Economy” in all
sectors



European Union
European Regional
Development Fund



Energy video





Areas of expertise



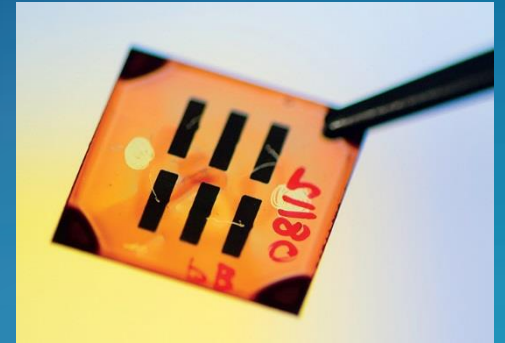
Energy Efficient Buildings



Renewable Energy



Smart Grids



Advanced Materials



Energy Vectors & Storage



Fossil Energy & CCS



Society, Economy & Policy



Energy Systems



Energy for Business

ETRI – Energy Technologies Research Institute

Access specialist consultancy from 150 world-class academics from across the university working on energy research. 1:2:1 support available.

Energy Capability Statement

tinyurl.com/uonenergycapability

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Energy Capabilities

A comprehensive guide by the Energy Technologies Research Institute

sustainable
smart technologies
advanced materials
energy efficient buildings
fossil energy and carbon capture and storage
energy vectors and storage
society, economy and policy
energy systems
renewable energy
smart grids
research
renewable energy
smart technologies
advanced materials
energy efficient buildings
smart grids
fossil energy and carbon capture and storage
energy systems
society, economy and policy
energy vectors and storage

European Union
European Regional Development Fund

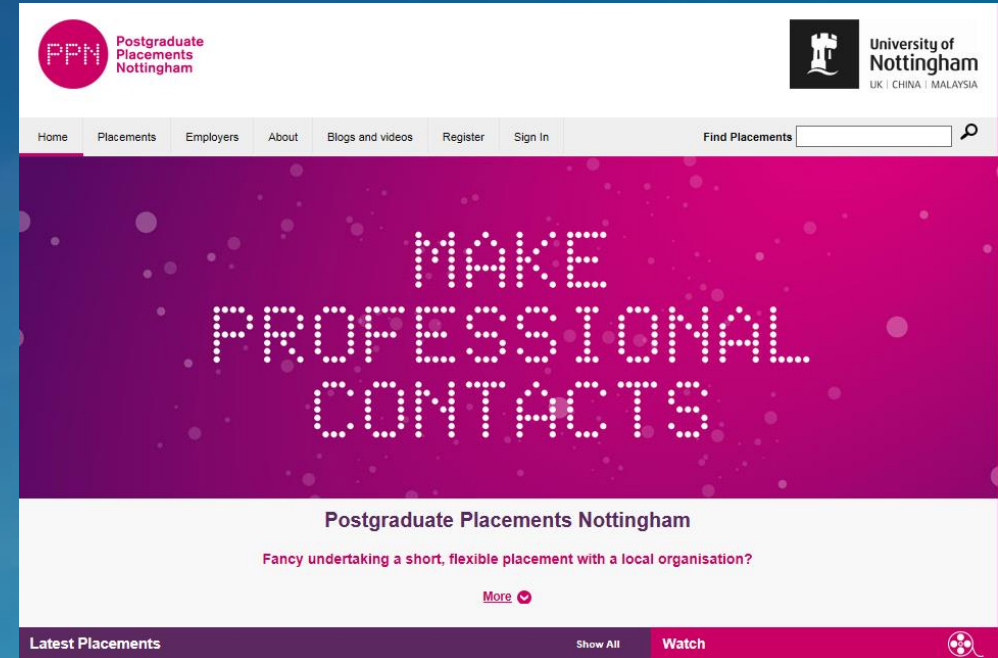


Postgraduate Placements

200hrs utilising expertise of current Masters or PhD students. Part of full time. Fully Funded for Energy projects

Examples

- Carbon footprinting for low energy housing design
- Solar electronics design
- Energy storage assessment using clip on energy monitors
- Sustainable Housing energy and innovation review
- Building energy modelling new sports training facility
- Electric vehicle technology
- CFD for combustion process
- Low cost solar thermal system design



ppn.nottingham.ac.uk



Delivering opportunity for innovative, strategic growth.

Embedding new capability and Knowledge in to an organisation

Very cost effective way to bring in new expertise over 2 – 3 year period

Bid process aligning with Innovate UK funding streams.

Specialist team who support you through the process.

<https://tinyurl.com/UonKTP>



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Grant Scheme



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Are you looking to improve your energy for business?

Funding is available to boost your business, with grants of **up to £10k** on offer to successful applicants.

Find out more:

 energy@nottingham.ac.uk

 nottingham.ac.uk/energyforbusiness



European Union

European Regional
Development Fund

To qualify for funded support businesses must be SMEs in the D2N2 region. This Low Carbon project is delivered by the Energy Innovation and Collaboration team and funded by the European Regional Development Fund (ERDF).

Implement
the use of
**sustainable
technologies**

Improve
energy
efficiency

Reduce
**CO₂
emissions**

Contact us
for
further information
Next deadline 31st
May



SME Enrolment – Simple Form

SME ENROLMENT FORM & State Aid Declaration

Organisation Details			
Name of organisation			
Contact			
Position within organisation			
Address			
Postcode			
Local Authority Area			
Telephone			
Website			
E-mail			
Company registration no. [if applicable]		Date of incorporation	
Nature of business			
Number of employees			
Do you have an Equal Opportunities Policy?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Do you have a Health and Safety Policy?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Do you have an Environmental Sustainability Policy?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Eligibility		
In order to receive support from the European Union you must meet certain requirements; would you please confirm the following about your organisation:		
Has fewer than 250 employees	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Not more than 25% of your organisation is owned by an enterprise that is not itself an SME	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Has annual turnover not exceeding €50 million, or Has annual balance sheet not exceeding €43 million	Yes <input type="checkbox"/>	No <input type="checkbox"/>

State Aid Declaration	
I declare that the comprehensive amount of De Minimis and/or Article 28 ^a State Aid received by the company/organisation over the last three rolling years does not exceed the threshold [^a see guidance notes attached for explanation] and is as follows:	
If nil then insert the word Nil:	

Year 1 (insert year, source and name of Aid) £	Year 2 (insert year, source and name of Aid) £	Year 3 (this financial) (insert year, source and name of Aid) £	Total £

Equal Opportunities	
The following information should be provided based on the Ownership of the business	
Ethnic Origin How would you describe the owner/s cultural or ethnic origin? (tick one box only) N.B. Please note that ethnic origin is not a matter of nationality, right of abode in the UK or place of birth.	
a. White <input type="checkbox"/> b. Mixed <input type="checkbox"/> c. Asian <input type="checkbox"/> d. Black <input type="checkbox"/> e. Other <input type="checkbox"/> f. Prefer not to say <input type="checkbox"/>	

Gender [please tick]:	Age: Which of the following age groups do you belong to:			
a. Male <input type="checkbox"/> b. Female <input type="checkbox"/>	16 – 24 <input type="checkbox"/>	25 – 29 <input type="checkbox"/>	30 – 34 <input type="checkbox"/>	35 – 39 <input type="checkbox"/>
c. Prefer not to say <input type="checkbox"/>	40 – 44 <input type="checkbox"/>	45-49 <input type="checkbox"/>	50 – 54 <input type="checkbox"/>	55-59 <input type="checkbox"/>
	60 –64 <input type="checkbox"/>	65 + <input type="checkbox"/>	Prefer not to say <input type="checkbox"/>	

Disability	
Do you consider yourself to be a person with a disability as described by the Equality Act 2010? i.e. Do you consider yourself to be someone who has a physical or mental impairment which has a substantial and long term adverse effect on your ability to carry out normal day to day activities?	
Yes <input type="checkbox"/> No <input type="checkbox"/> Prefer not to say <input type="checkbox"/>	

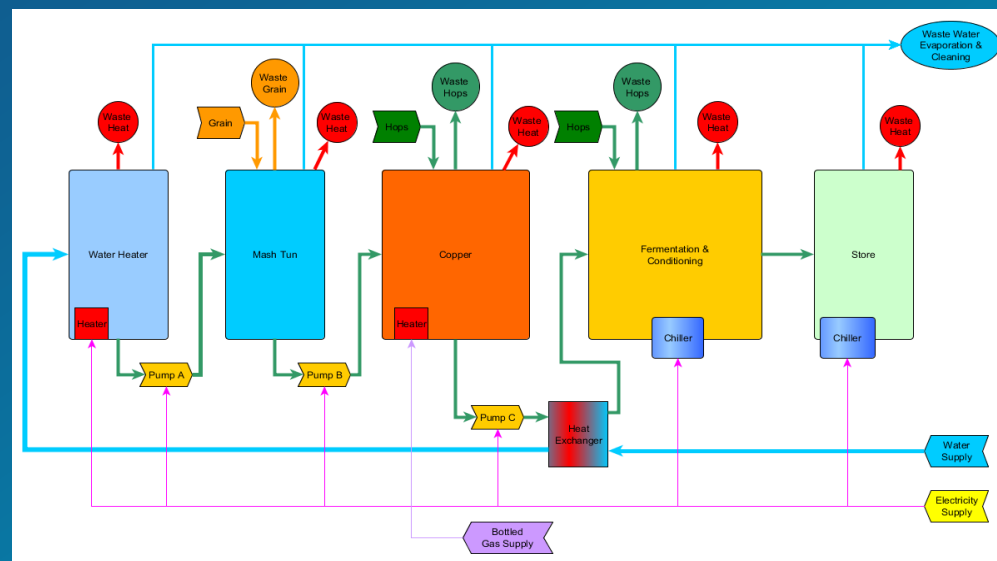
Data Protection	
By completing this form you acknowledge and agree that the data contained within can be held on a computer and used for any purposes and disclosures as registered under the Data Protection Act 1998, and that The University of Nottingham may share this information with its Enabling Innovation project partners (Nottingham Trent University and the University of Derby) for the purposes of checking eligibility and compliance with ERDF and State Aid Regulations.	

Company Declaration	
I certify that the information contained in this enrolment form is correct to the best of my knowledge	
Signed:	
Name in capitals:	Date:
Position:	



Breweries support in energy efficiency

- Within the food and drink sector, breweries are responsible for approximately 4.8% of both electricity and fuel use.
- Carbon Trust estimated a 5% carbon saving (22,000 tonnes CO₂/year) across the brewing sector through the implementation of energy efficiency measures and process optimisation.
- The specific energy consumption of the average brewery is 0.57 kWh per litre of product produced.
- Smaller breweries consume about twice as much energy per litre of product compared to current best practice in the brewing industry.
- There is great room for energy efficiency improvement and carbon dioxide emission reduction with smaller breweries.



Brewing process overview



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Review of energy consumption within the brewing process

- Technical visit to look at your brewing process
- Assessment of energy consumption
- Report highlighting process improvement and addressing reduction of energy costs and greenhouses emissions



If you are working on or planning an energy related project please get in touch, we welcome the opportunity to talk to you about your business.

Dr. Laura Porcu

Business Development Officer

Energy Innovation and Collaboration team

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laura.porcu@nottingham.ac.uk

nottingham.ac.uk/energyforbusiness

@UoNEnergy



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