



UCC

Coláiste na hOllscoile Corcaich, Éire
University College Cork, Ireland

School of Engineering **CK600**

Dr. Denis Ring CEng FIChemE MIEI





UCC's Engineering Strengths

- Long history of **CONTINUOUS** development
 - ✧ Civil Engineering 1900's
 - ✧ Electrical Engineering 1950's
 - ✧ Process & Chemical 1990's
 - ✧ Energy Engineering 2000's
- 2014 : QS World University Rankings
 - ✓ Electrical & Electronic ranked in **top 150**
 - ✓ Process & Chemical ranked in **top 200**
- Accredited by **Engineers Ireland**
(Energy Engineering applying for accreditation for the first time)
- PCE Internationally Accredited by **Institution of Chemical Engineers**



UCC's Engineering Strengths

- Well resourced with excellent staff and Facilities
- Brilliant students
 - ✧ 57 Teaching & Support Staff combined with 42 Researchers!
 - ✧ 589 undergraduates, 232 postgraduates (128 Ph.D.)!
 - ✧ Research activities well funded: -



Irish Research Council
Environmental Protection Agency Ireland
EU Framework Programmes and Horizon 2020
Science Foundation Ireland
Sustainable Energy Authority of Ireland
United Technologies
Wellcome Trust (UK)



Research Opportunities



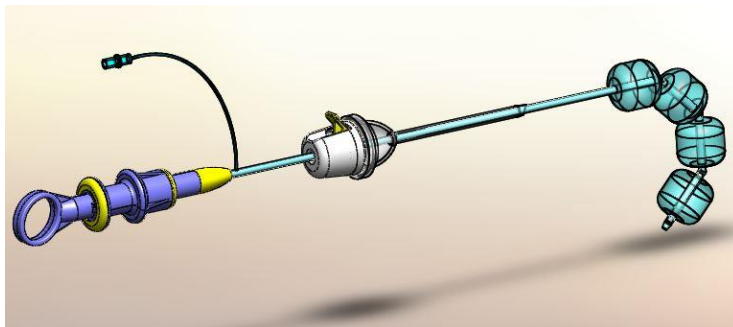
Beaufort Marine
Research (MaREI,
HMRC+CMRC)
53 staff
25 students

Tyndall
460 staff
135 students

Links with
research
centres

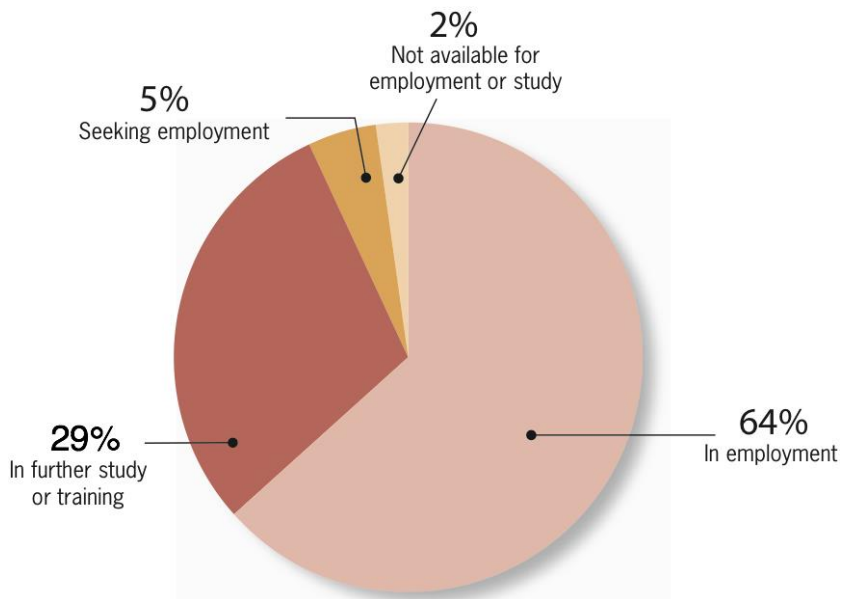


Environmental Research
Institute
25 staff
15 students





Graduate Destinations 2013 : Civil & Environmental

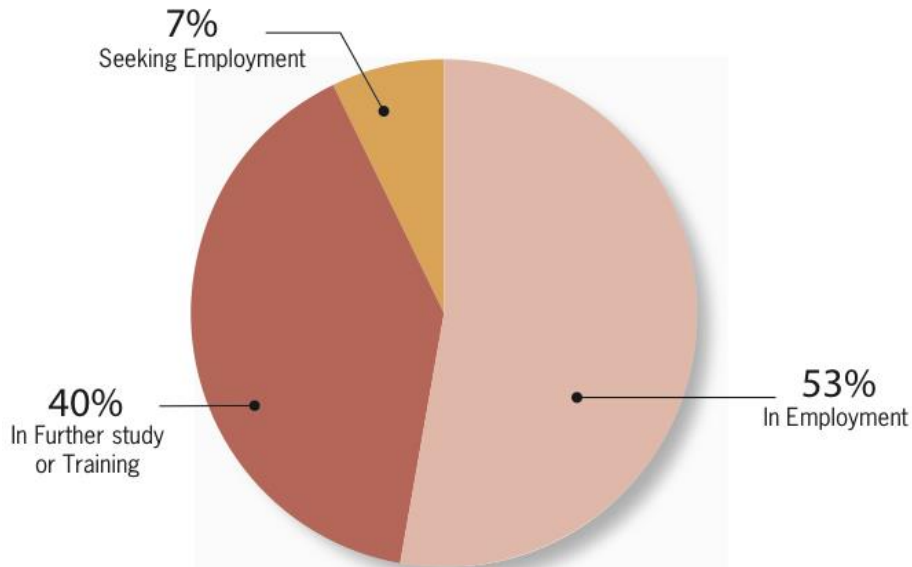


Anne Moloney, Project Manager for €1Bn Forth Replacement Crossing in Edinburgh.

Employers: - Arup, Bern Brothers, John Sisks & Son, Byrne Looby Partners, KPMG, Accenture, ...



Graduate Destinations 2013 : Electrical & Electronic

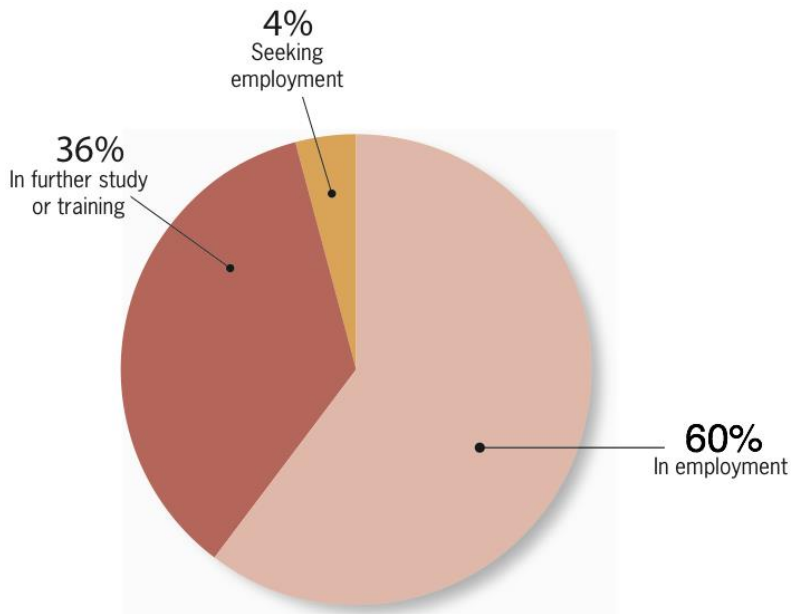


Dr. Niamh O'Mahony, Lead Applications Engineer for wearable wireless sensing , Shimmer (Dublin)

Employers : Texas Instruments Ltd, ESB International, Analog Devices Inc., Apple, ON Semiconductor , M/A-COM Technology Solutions, ...



Graduate Destinations 2013 : Energy Engineering

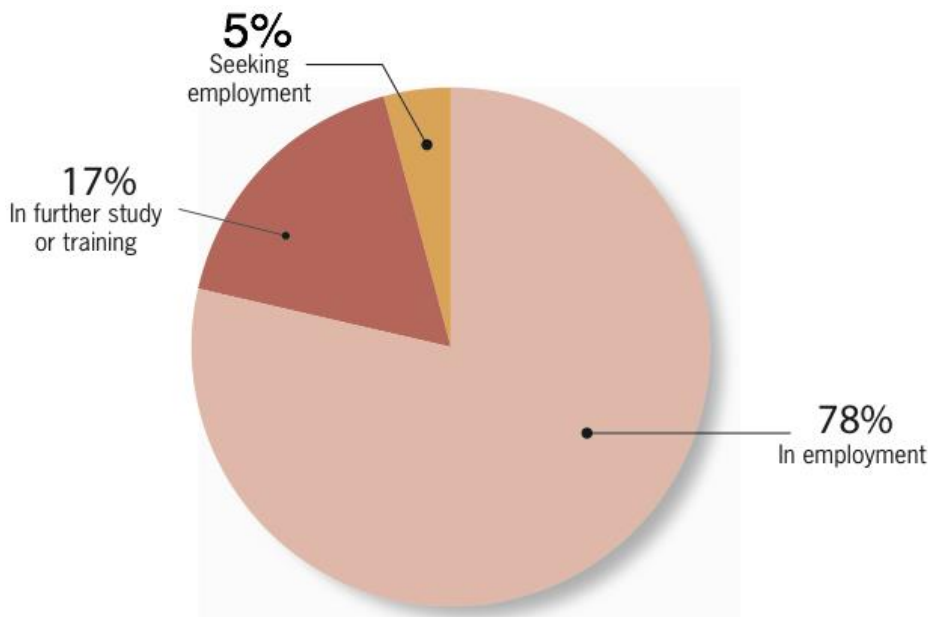


Shane McCarthy, Senior Associate Consultant at Clarity Solution Group/Data Engineer at Facebook

Employers : Accenture, ESB International, First Derivatives, Neodyne Ltd., Bord Gais, Mainstream Renewable Power...



Graduate Destinations 2013 : Process & Chemical



Eoin Hayes, Sales Strategy and Operations Consultant, The Alexander Group, New York.

Employers : PM Group, Merck Sharp & Dohme, Pfizer, Glanbia, GSK, Irish Distillers, Jacobs Engineering



Typical Earnings?

Years Qualified	Median	Lower Quartile	Upper Quartile
<1	€28,000	€23,000	€33,000
1-2	€28,000	€23,000	€33,000
3-5	€38,000	€33,000	€48,000
6-10	€43,000	€38,000	€55,500
11-15	€58,000	€48,000	€73,000
16-20	€68,000	€58,000	€83,000
21-25	€83,000	€63,000	€98,000
26-30	€83,000	€68,000	€98,000
>30	€83,000	€68,000	€108,000

Source : *Engineers Ireland Salary Survey 2012*



Q. Primary Degree with highest number of millionaires?

A. Engineering – with entrepreneurship.

Source : *SPEAR's Wealth Management Magazine, 2013*



Previous CAO Entries for Engineering

- CK601 Process & Chemical
- CK602 Civil & Environmental
- CK603 Energy Engineering
- CK605 Electrical & Electronic

Course-specific CAO cut-off points



Previous CAO Entries for Engineering

- CK601 Process & Chemical
- CK602 Civil & Environmental
- CK603 Energy Engineering
- CK605 Electrical & Electronic

Course-specific CAO cut-off points

Current CAO Entries for Engineering

- CK600
 - Process & Chemical
 - Civil & Environmental
 - Energy Engineering
 - Electrical & Electronic
 - No Preference

Choose
One
Option
Only

Single CAO cut-off point for **all** engineering applicants



Applicant Scenario

- Preferred Option (e.g. Energy Engineering)
 - ✧ **Advantage** : If accepted, the student is guaranteed a place on their programme of choice
 - ✧ **Disadvantage** : None



Applicant Scenario

- Preferred Option (e.g. Energy Engineering)
 - ✧ **Advantage** : If accepted, the student is guaranteed a place on their programme of choice
 - ✧ **Disadvantage** : None
- No Preference Option
 - ✧ **Advantage** : If unsure about which programme to choose, defer choice until First Year exams are passed.
 - ✧ **Disadvantage** : Place on programme of choice will be subject to academic performance and **available capacity**. Students **MAY NOT** get their first choice, although they are guaranteed a place on at least one engineering programme.



First Year Studies

- 50 credits common to all students.
- All four optional engineering modules run in **Semester 2**.
- **Preferred Option** students must study the 5 credit module associated with their initial choice (e.g. Energy Engineering) and choose one other optional 5 credit engineering module.
- **No Preference Option** students are free to choose any two 5 credit optional engineering modules.

Total : 60 credits



Second Year Studies

- Having passed first year exams: -

✧ Preferred Option students either: -

(a) Continue in their chosen programme

Or

(b) Apply for transfer to another engineering programme
(**capacity limits apply**)

✧ No Preference Option students apply for admission to their programme of choice (**capacity limits apply**).





Second Year Studies

- Programme-specific first year module (e.g. Energy Engineering) is **NOT** a prerequisite for second year studies in that programme.
- Guiding principle – Subject to resource constraints and satisfactory academic performance, every reasonable effort will be made to accommodate student choice.



CK600 Key Points

- Single CAO cut-off point for all applicants.
- Choose only one option.
- Preferred Option students can apply for transfer to another engineering programme.
- No Preference Option students are guaranteed a place in an engineering programme, but it may not be of their choosing.

Academic Performance

+

Capacity Limits



School of Engineering UCC **CK600**

Welcomes You to Your Future

