

## HOW AN APPLIED INDUSTRIAL SCIENCE HIGHER LEVEL APPRENTICESHIP DELIVERS JOBS

**Employment and Learning Minister Dr Stephen Farry recently met apprentices on the new Higher Level Apprenticeship in Applied Industrial Science (Chemical Science) at Norbrook Laboratories Ltd in Newry.**

Thirteen apprentices commenced the programme in January and are employed by Norbrook through the two year Apprenticeship programme which is equivalent to a Foundation Degree. The Higher Level Apprenticeship in Applied Industrial Science (Chemical Science) is offered by Southern Regional College and Norbrook.

Speaking from the Norbrook facility where the Minister met with Norbrook management and the new apprentices, Dr Farry said: "The delivery of gold standard higher level apprenticeships, such as these, will form a key part of the new skills landscape. The new model for

apprenticeships will put employers in the driving seat by aligning with their needs in meeting the growing demand for higher level skills.

"This visit provides me with a valuable insight into the pilot Higher Level Apprenticeship in Industrial Science. The development of apprenticeships in priority skills areas such as pharmaceutical and life sciences is vital for the future success of the Northern Ireland economy."

"The work that the Southern Regional College is currently undertaking with Norbrook Laboratories is an example of how our Further Education colleges can work in partnership with local business and industry. The development of science related apprenticeships is important for the future of our young people and for the local economy."

The Higher Level Apprenticeship in Applied Industrial Science consists of four days working in Norbrook and one day off the job training at Southern Regional College, giving participants the opportunity to earn while they learn.



Employment and Learning Minister Dr Stephen Farry met apprentices on the new Higher Level Apprenticeship in Applied Industrial Science (Chemical Science) at Norbrook Laboratories Ltd in Newry. Thirteen apprentices commenced the programme in January and are employed by Norbrook through the two year Apprenticeship programme. Also pictured are higher level apprentice Jill Sanders from Portadown, Brian Doran, Southern Regional College and Dr Lillian Cromie, Norbrook Laboratories Ltd

For further information on apprenticeships visit: [www.nidirect.gov.uk/apprenticeships.htm](http://www.nidirect.gov.uk/apprenticeships.htm).

## Are you ready to shape the future?

AT ULSTER University, our computing and engineering students experience great teaching and learning underpinned by pioneering research of an international standard. Our staff enjoys a reputation for providing a high level of support to our students. Our recent Research Exercise Framework (REF) 2014 results speak for themselves: In Computer Science, 90 per cent of our research environment is considered world or internationally leading. Computer Science is ranked in the top 25 per cent within UK universities. 100 per cent of our engineering research impact is considered world or internationally leading and we are in the top UK quartile across all research topics. Indeed Engineering at Ulster is ranked in the top 20 within UK universities.

Our students benefit from strong links with local industry. Our academic team engages with industry through student placement and graduate employment opportunities, joint research programmes, consultancy, fusion projects and Knowledge Transfer Partnerships. All Ulster Computing and Engineering courses offer students the opportunity of student placement, ensuring graduates enter the job market with a degree and real world work experience making Ulster students a real option for employers. Our fresh thinking approach has empowered us to set up a number of successful spin-out companies including Heartscape, Heartsine, Intelesens, HidInImage, and Axis Composites and spin-in company Si-Saf.

Regardless of whether you choose to study computing or engineering, you will benefit from a first class teaching and learning experience at Ulster.

## HELPING TO CHANGE THE FACE OF MEDICINE

**Professor Tara Moore, Vision Science research group leader and associate director of Biomedical Sciences Research Institute, Ulster University**

**Can you describe a typical working day?**  
All my teaching is delivered online to students distributed world wide, therefore my laptop, iPhone and I are never separated. I also lead a research team in the development of new molecular therapies for blinding eye disease. There is no typical day. I could awaken at 4am to get a flight to USA or Europe to present my research findings at an international conference, or attend a University interview to recruit new staff to our Research Institute. I could even be heading up the Amazon jungle to collect samples from eye surgery.

**What has been your educational route to this post?**  
After a degree and PhD I undertook several research fellowships spanning Harvard Medical School, Boston and numerous laboratories in universities in Belfast, New York, Dundee and Italy.

**How does your work as an educator make the world a better place?**  
My teaching is mostly for medical doctors for whom I develop and deliver specialist postgraduate courses. I get a real sense of achievement knowing that when I develop courses like that, it has a direct translation to

the people of Northern Ireland, and worldwide in fact, through better-educated health care professions.

**What do you really like about your job?**  
I really like the diversity, the excitement and all the new challenges that come with my job on a daily basis. As an educator and researcher, I have a responsibility to inspire young people. It is vital that we recognise and nurture all talent in STEM to ensure our continued presence within the leading industrialised nations of the world. I hope that my own efforts at Ulster University may make some small contribution to this.

**What is your perception of future prospects in the Biomedical Science Industry?**  
As Science enters the \$1,000 human genome era, it is promising to revolutionise personalised medicine, delivering five genomes a day. This sci-fi like age of genomics will undoubtedly accelerate our understanding of how genes influence disease leading to better treatments for patients.

**I believe you have seven children, how do you balance your career with your personal life?**  
Yes, I have one boy and six girls – Leon is 12, Macy is 11, Luca is 9, Amélie is 7, the twins Siena and Summer are 4 (going on 14!) and the baby Italia has just turned 2. When I made a decision to be a working mum I thought I would have to juggle things, evidently I didn't plan to have 7 kids, so I



juggle a lot.

**Would you recommend your type of job to other young people?**

Yes, this Bio-IT career is what I would definitely advise for young girls hoping to be involved in radically changing the future of medicine. At Ulster University we offer many exciting paths to study. Our newest course is the exciting Bio-IT undergraduate degree in Stratified Medicine, which I was involved in designing. It combines maths, science and IT. It is based in the University's Clinical Translational Research and Innovation Centre (C-TRIC) on the Altnagelvin Hospital site. We are realising the potential of stratified medicine in healthcare, and this is absolutely the path to take for those interested in STEM subjects.

## Become part of our success story

Here at Schrader Electronics, part of the Sensata Technologies group, we take pride in our World Leading range of Tyre Pressure Monitoring Systems that we distribute globally to companies like Mercedes. Expanding on our core competencies, we also design and manufacture innovative electronic sensors for the Automotive and Industrial Sectors. Our success is built on the strength of our people, we invest heavily in our Graduate Programme to attract the most talented people. We are actively involved in STEM outreach and work with local schools, colleges and universities. We aim to inspire young people to consider an exciting career in the STEM arena.



Each academic year, from September onwards, we offer the following opportunities:

### Placements

We offer Industrial Placements and opportunities for work shadowing in the following areas: Mechanical Design, R&D, Manufacturing Engineering, Manufacturing Information Systems, Continuous Improvement

### Graduates

We offer a structured 1 year Graduate programme. You will receive an Industry recognised qualification e.g. ILM Level 3, CIEH, Six Sigma Orange Belt and a designated Mentor.

### Scholarship

1st year Undergraduates can avail of a scholarship scheme which includes a paid Bursary, work placements and support throughout the duration of their course.

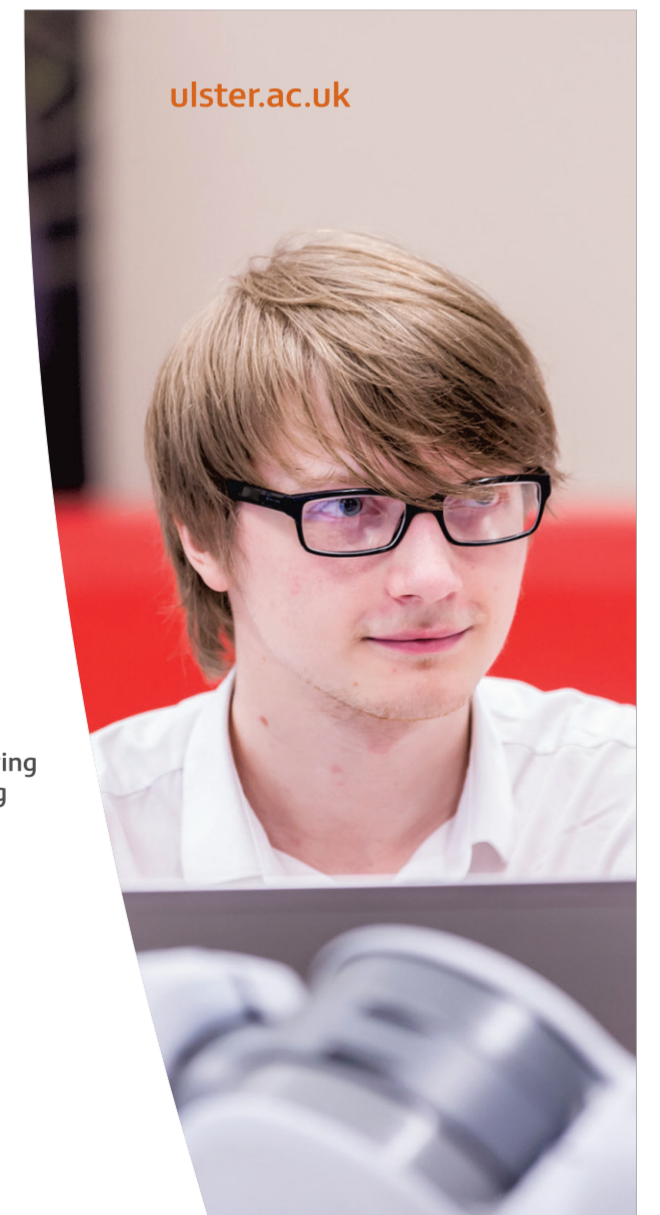
For more information on these and other opportunities visit our website at [www.schradercareers.com](http://www.schradercareers.com) or follow us on:



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- Renewable energy engineering
- Software engineering
- Technology with design

Faculty of Computing & Engineering



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