

Continuing contract confirmed

The Futureintech team is delighted to be able to announce that the initiative's contract with the Ministry of Education has been renewed, and that funding has been confirmed for a further four years.

Created on the basis of an initial four-year contract in 2003, Futureintech has proven its value in the promotion of careers in the essential areas of technology, engineering and science thanks to the extremely positive response it has received from industry and schools. As a concept it is dependent on the goodwill and proactive support of industry, which has so far been generously provided.

Futureintech relies on industry support in many ways, all of which combine to enable the initiative to function. Ambassadors are at the heart of this. The impact on students of hearing from those close to their own age about the day to day experience of a particular career; or receiving advice on a project from someone who uses the same skills in their own work, can be huge. This crucial element of Futureintech's work is only made possible through the willingness of companies to grant their young employees the time to spend in schools.

Every day host partners provide regional Facilitators with office space, the use of computers, printers, photocopiers and phones, and the camaraderie of colleagues in what can frequently seem an isolated role. They also enable Facilitators, whose

background is primarily in education, to gain insights into the careers they promote.

Many thanks to Carter Holt Harvey Pulp & Paper, Kinleith; Fraser Thomas Engineering Consultants; Riley Consultants Ltd, Stormwater Solutions and Fulton Hogan, all of whom currently host Facilitators, and Blackbay (NZ) Ltd; Farra Engineering; Genesis Research and Development Corporation Ltd; MWH NZ Ltd and Traffic Design Group who have done so in the past.

Other companies have shown their support for the aims of Futureintech by offering scholarships, sharing information on their recruitment policies, supporting related initiatives and encouraging their employees to volunteer as Futureintech Ambassadors.

The sharing of information allows Futureintech to provide students with information that has the authority of coming directly from the source. Our latest career brochures, produced in partnership with the industries involved, take full advantage of this. Find out more on page 3.

The Futureintech team is grateful to all companies that have supported the initiative over the past four years, and looks forward to continued collaboration over the next four.



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Facilitating change on the mainland

Futureintech is flourishing in the South Island with the appointment of two new full-time Facilitators in Christchurch and Dunedin.

Farewell to Neil



Futureintech's loss was Twizel Area School's gain as Christchurch Facilitator Neil Potter returned to the classroom this term as Deputy Principal, accompanied by his wife Kay, who took on the job of Assistant Principal in the same school. Neil has spent three and a half years in the role of Facilitator and will be much missed for his enthusiasm, warmth and humour.

"It has been a wonderful experience for me to work with the Futureintech team," he says. "I have met fascinating people in both industry and education. It has been great seeing students discover that there are so many interesting pathways available. Thank you to the teachers who have invited Ambassadors into their classrooms, and to the Ambassadors from industry whose enthusiasm is reflected in the eyes of the students they encounter."

Welcome to Colin and Lynne

Making the move in the opposite direction, **Colin Bell**, a secondary maths and science teacher, will take over as Christchurch Facilitator in late August.

Colin currently teaches maths and physics at Hurunui College, has a Master of Science and has worked

as primary science advisor for the Christchurch College of Education.

He was attracted to the opportunity to join Futureintech by the chance it offers to benefit students through the combination of teachers' curriculum knowledge and the applied knowledge of Ambassadors.

"Like most science and maths teachers I'm fascinated by the applications of my subjects and strive to bring this perspective into the classroom. Students are keen to know how ideas are applied to real-life situations and discovering a new intellectual horizon or career possibility is highly significant to their attitude and interest.

Hence the Futureintech approach of using Ambassadors to create links between the classroom and the outside world seems spot on to me. It provides a unique opportunity to enrich the learning experiences of students and to bring topics alive. Who better than a mechanical engineer to discuss robotics or a surveyor to demonstrate applications of trigonometry."

In Dunedin, **Lynne Newell** became the most southerly Futureintech Facilitator on 19 July.

A former primary school teacher and the recipient in 2003 of a New Zealand Science, Mathematics and Technology Teacher Fellowship, Lynne has worked for the past two years for American Income Life of New Zealand. In Dunedin she is hosted by Fulton Hogan.

"I was attracted to the position of Futureintech Facilitator because it brought me back in contact with



New Christchurch Facilitator, Colin Bell.



New Dunedin Facilitator, Lynne Newell.

students and schools after a two year break from teaching. I also believe strongly in the aim of Futureintech to promote careers in engineering, science and technology due to the shortage of young people taking up jobs in these areas.

"I like the idea of meeting lots of people from various industries. Being hosted by Fulton Hogan also puts me in amongst engineers and related professionals and I am enjoying meeting the people there and finding out about their careers."

Helping promote your industry

Could your industry sell itself better to students? Why not work alongside Futureintech to publicise the possibilities?

To ensure that Futureintech's advice on specific career fields is in line with the perspective of industries themselves, and to vary the appearance of publications provided to students, Futureintech has recently begun a series of collaborations with industry representatives. The aim is to produce a range of eye-catching, informative career brochures across the spectrum of technology, engineering and science.

A successful partnership with the New Zealand Institute of Food Science and Technology has already resulted in the first of these brochures, offering a glimpse of the diversity of careers possible within the food industry. Brochures produced on chemical engineering with the input of SCENZ

**YOUR FUTURE IN...
CHEMICAL ENGINEERING**

Much of New Zealand's food export income comes from relatively unprocessed foods. To make more money from our food and beverage exports, we must continue to come up with new ways that we can add value to them. We can only do this if we have more scientists, technologists and engineers.

Next time you go into a supermarket, check out the huge range of processed foods on offer. With a food science, technology or engineering degree, you could be involved in producing the next new food product.

Opportunities for employment within the food industry continue to grow, as the supply of graduates is not keeping pace. The food industries in Australia and the UK are also short of graduates.

WHAT JOB OPPORTUNITIES ARE THERE?

With a food science, technology or engineering degree, you'll have the choice of working for large multinational companies such as Cadbury, Fonterra and Heitz-Waltia's, small food processors such as Hubbards and Cooke Time, research organisations such as HortResearch and Crop & Food, and government agencies such as the New Zealand Food Safety Authority to name just a few.

"The areas you can work in seem boundless, with no limits to where you could end up. The job is full of variety, challenges and opportunity for growth - that's why I love it."
Jeanette Redstone, Chemical Engineer

(the Society of Chemical Engineers New Zealand) and science with the Royal Society of New Zealand are soon to be made available. If you feel that your industry ought to be

**YOUR FUTURE IN NEW ZEALAND'S
FOOD INDUSTRY**

The food and beverage industry in New Zealand generates around \$15 billion a year - over half of our export earnings - and involves over 20% of our workforce. Career opportunities are enormous, particularly for food science, technology and engineering graduates, of whom there is a world-wide shortage. This brochure explains these careers, who they suit and how to get there.

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THE PATHWAY TO A CAREER

To get into a food science, technology or engineering degree programme you'll need NCEA Year 13 Calculus and Chemistry. Depending on the course you want to do, you may also need Statistics, Physics, Technology or Biology. You'll find the requirements for each course at www.nzit.ac.nz.

You have a choice of 12 degrees in food science or technology - at Auckland, AUT, Massey Auckland or Palmerston North, Lincoln or Otago universities. For food engineering you could go to Auckland, Massey Auckland or Palmerston North, Waikato or Canterbury. Check your options at www.nzit.ac.nz.

NEW ZEALAND IS A WORLD LEADER IN FOOD SCIENCE & TECHNOLOGY.

We're a reputation for producing top quality, highly innovative products - our graduates in this area are in demand around the world.

The industry is continually improving existing or producing new products and processes so there are always exciting things happening.

It covers a large number of areas and requires a large number of people doing different jobs. Be sure to find something to be passionate about.

AMY THOMPSON, RESEARCH SCIENTIST, MASSEY UNIVERSITY

represented, and your company is in a position to collaborate with us on the development of a brochure, please contact Laura Fergusson on lfergusson@futureintech.org.nz.

A new look on the net

The Futureintech website has been extensively redesigned for the launch of the second round of funding, and has recently gone live. The new look incorporates a cleaner, more contemporary appearance with a greater ease of navigation and a more imaginative use of pictures, while still providing users with extensive information on careers and courses, profiles of companies and employees in relevant industries, details of the Visiting Industry Professionals scheme and links to further useful websites.

The site continues to be at www.futureintech.com

futureintech
A career in technology, engineering and science

Home | Career Options | Employers | Study Options | VIP Scheme | In Schools

Contact Us | Survey | Why Futureintech?

Welcome to Futureintech

Your gateway to careers in technology, engineering & science

Futureintech was set up to provide you - the student, the teacher, the caregiver, the careers advisor - with the tools, insight and advice you need to discover the vast range of careers out there. Find out about companies and what they do, where to study, and available scholarships. Discover what young professionals have to say about their work, the skills they've developed, and how they got their jobs

IPENZ ENGINEERS NEW ZEALAND Futureintech is a Government-funded initiative of the Institution of Professional Engineers New Zealand, the professional body for the engineering profession. www.ipenz.org.nz

People talk about their jobs	Futureintech In Schools	Industry Contributors
Young technology, engineering and science professionals talk about what they do and how they got their jobs	North Auckland Central/West Auckland South/East Auckland Central North Island Napier/Hastings	Wellington Christchurch
		Host Partners Partners

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Futureintech news

One more engineer – thanks to Futureintech

Auckland student Bradley West credits Futureintech with sparking his interest in engineering and determining his choice of career.

Bradley, a former student of Hauraki Plains College, met South/East Auckland Facilitator Gay Watson when she visited the school last year, and discussed options within engineering with her. Currently working as a cadet for Opus International Consultants, Bradley recently wrote to inform Gay of the impact she had had on his choices and described engineering as an “awesome job – heaps of variety and I’m always busy”.

Classroom reflects a trend

Thanks to the recruitment of a recent batch of Futureintech Ambassadors a new category has been added to the list of careers featured on the website: Operations Research. Principally employed by Air New Zealand, the profiles of these Ambassadors demonstrate the growth of this field, in which mathematical modelling, statistics, game theory and simulation are used to generate staff rotas, plan routes, schedule transport or design factory layouts.

The techniques involved are increasingly in use, as was highlighted on a visit made by the Futureintech team to an ICT class at Wellington High School. Students in Year 13 had been asked to design a website or program to fulfil a function requested by a client. Two students whose mothers work for Women’s Refuge were asked to develop a program to create a volunteer roster based on times requested by individuals. The resulting program will be used by the refuge to solve a genuine need, and displays the growing importance of the sector.

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(from 24 August 2007)

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