

Engineering e2e – what’s up for 2017?

There’s a lot going on this year as Engineering Education-to-Employment (Engineering e2e) progresses various initiatives. The programme is funded by Government in response to the engineering skills shortage and aims to increase the number of engineering graduates in New Zealand. The Engineering e2e Steering Group is also pleased to announce that Sir Neville Jordan has agreed to continue as Chair through to the end of October

Sponsored degrees

Following Engineering e2e-commissioned research into the ‘degree apprenticeship’ model for educating engineering technologists, the Steering Group recommended that the Tertiary Education Commission (TEC) fund a pilot sponsored degree programme. This will be a work-based degree programme designed by employers and institutes of technology and polytechnics to fill a skills gap. A sponsored degree project is now under way.

Associate Professor Jane Goodyer of Massey University’s School of Engineering and Advanced Technology considered international models and wrote the following reports:

[Stepping into one another's world \(pdf\) 2015](#)

[UK degree apprenticeships: a year in review \(pdf\) 2016](#)

Secondary-Tertiary Pathways Projects

There was a lot of enthusiasm when Secondary-Tertiary Pathways Project managers met in Wellington last month. The six programmes involve collaboration between secondary and tertiary educators and local engineering employers. They aim to raise awareness of engineering careers and prepare secondary school students to study engineering by teaching maths, physics and technology within an engineering context.

[Promoting the middle pathway into engineering](#)

[Connecting three sectors to promote engineering pathways](#)

[Extending successful secondary-tertiary initiatives](#)

[Plugging the engineering skills gap](#)

[Electrotechnology course leads students into engineering](#)

[Teaching subjects in an engineering context](#)

Engineering Education Regional Hubs

The Engineering e2e Steering Group has also recommended an investigation into Engineering Education Regional Hubs comprised of representatives from primary and secondary schools, tertiary institutions and employers, and aimed at increasing the number of engineering graduates. This would involve a literature review of education hub models and engaging stakeholders to develop a vision and direction for engineering education hubs.

The recommendation follows Engineering e2e’s commissioned research into potential strategies for students progressing into or within engineering careers.

[Creating engineers: climbing the educational staircase](#)