Linking Engineers and Scientists with Teachers

http://telg.com.au/programs/least/

ENGINEERING LINK GROUP
Forging links between school and industry

Objectives:

Our objectives for a LEaST Professional Development Workshop are to:

- Demonstrate context-based teaching and learning to secondary science, engineering studies and mathematics (STEM) teachers.
- Offer a range of real experiences in the engineering world, from which to draw contexts for teaching.
- Provide potential contacts of local engineers and scientists, who could provide further contextual experiences and advice in the future.
- Extrapolate these experiences and models into the classroom.

Teachers learn about the roles of engineers and scientists in society and how their problem solving approaches can be applied to teaching in context. We also supply resource materials for current or developing contexts in Physics, Chemistry, Technology and Applied Studies and Mathematics, gathered from workshops held in three states. The program gives teachers direct experience with science and engineering so that they can motivate and engage their students in maths and science-based study.

BOSTES (NSW only)

A LEaST Professional Development workshop is a QTC Registered PD addressing, but not limited to Standards 2.1.2, 3.4.2 and 6.2.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

Program format and outcomes

- Workshop different ways to embed the engineering problem and other hands-on activities into classroom curriculums
- Share and discuss resources provided by the Engineering Link Group
- Gain an insight into what engineers and scientists REALLY do and receive practical, real examples of science and mathematics in action
- Enjoy a tour of a local university's facilities or an engineering site to see real-life engineering and science.

Engineers from the local community, in partnership with the local group of Engineers Australia, meet and work with local teachers.

Each workshop is facilitated by an experienced teacher, utilising the engineer's experience and expertise to bring STEM to life.

The program of activities is determined by the local schools' needs and the available engineers and scientists' skill set.