




The Skills Gap

Recruiting the next generation of Acoustical Engineers


Professor Chris Barlow PhD MSc BMus MIOA MAES
 Professor of Acoustics, Solent University, Southampton
 Chair, Education and Learning Working Group, Institute of Acoustics

Engineering industries – A General Problem




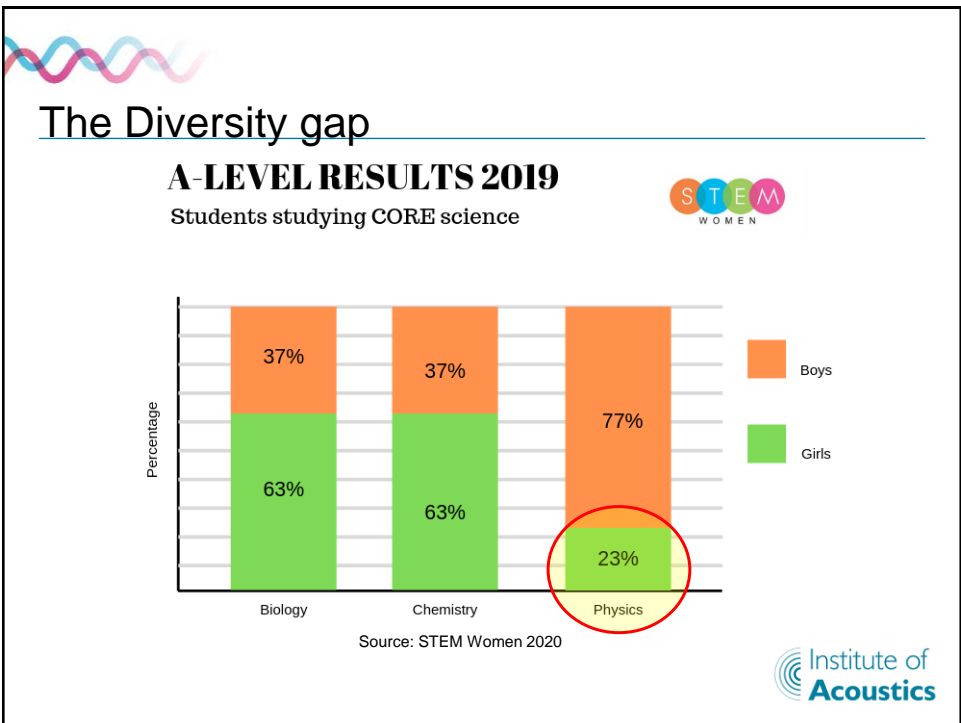
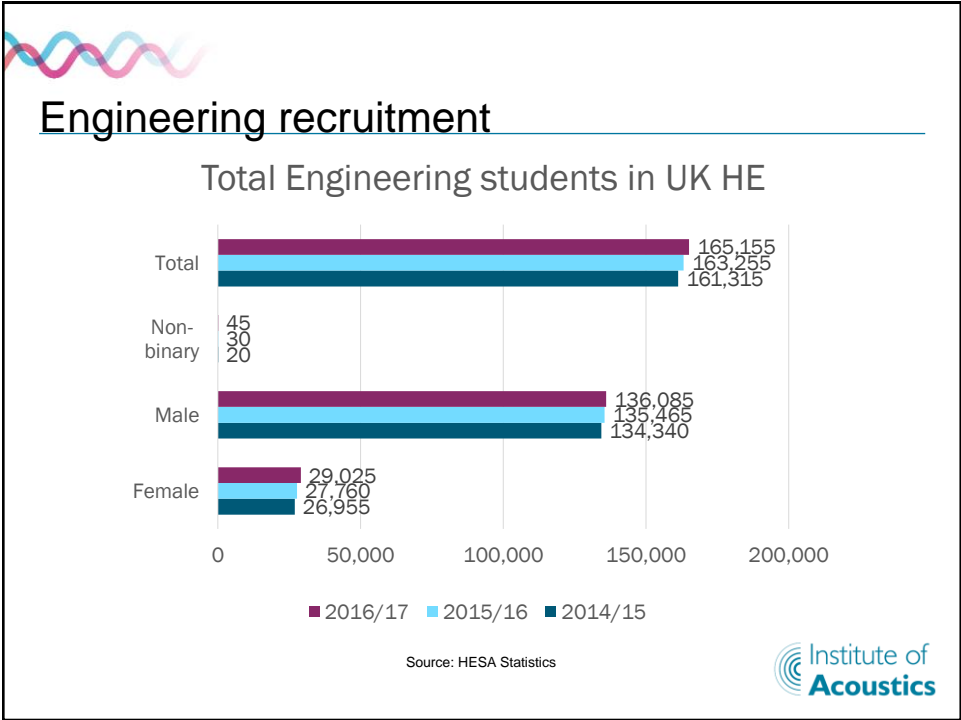
Altogether,
203,000 people
 with Level 3+ engineering
 skills will be needed every
 year to meet demand
 through to 2024



Annual shortfall of up to
59,000 engineering
 graduates and technicians
 to fill core engineering roles

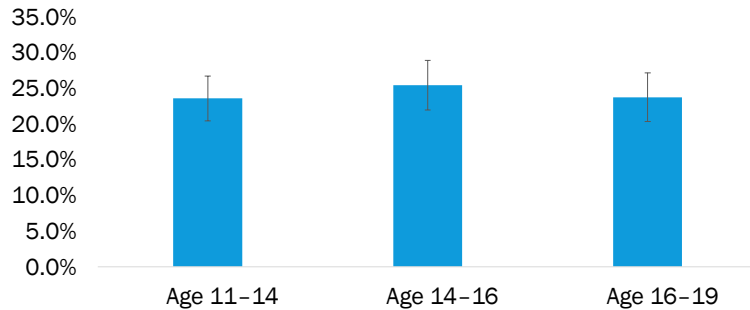
Source: Engineering UK, 2018





Awareness

Proportion of young people that knew *a lot or quite a lot* about what people working in engineering do.



Source: Engineering UK, 2018



Recruitment into the Acoustics Industry



News • Business • Business News

The 10 weirdest job titles in the UK, revealed

2. Acoustics Consultant

Source: Independent, March 2017

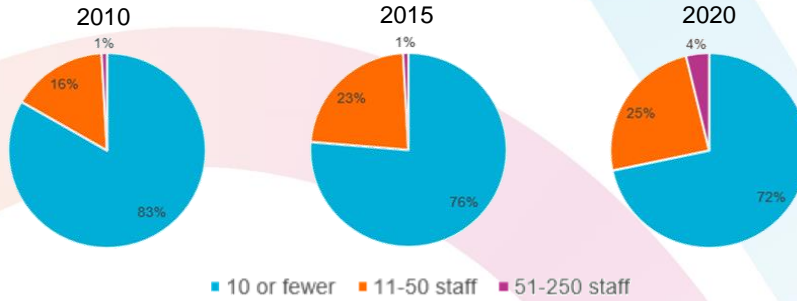
56% of Acoustic consultancies report struggling to recruit appropriately qualified staff.

Source: Association of Noise Consultants, 2017

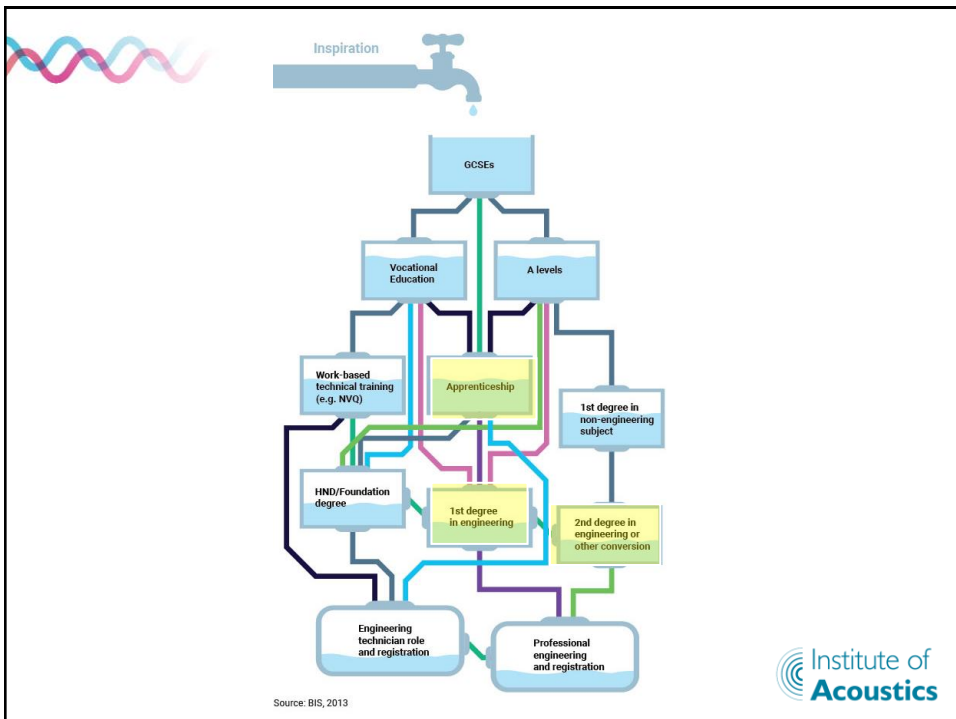


Recruitment into the Acoustics industry

Size of Acoustics Companies






Source: Association of Noise Consultants 2020




Source: BIS, 2013







Acoustics Education

BEng/BSc/MEng	MSc	Professional
 <p style="font-size: 24pt; font-weight: bold;">185</p>	 <p style="font-size: 24pt; font-weight: bold;">110</p>	 <p style="font-size: 24pt; font-weight: bold;">110</p>



Industry initiatives

Qualifications and education	Industry Awareness	STEM Outreach
 <p style="font-size: 10pt;">BDP, Vanguardia, AAPB, Adnitt, Bickerdike, Allen, Accon UK, Sustainable Acoustics, Wardell-Armstrong, Apex Acoustics, Aecom, Sandy Brown, Arcadis, RBA Acoustics, Institute of Acoustics, ANC</p>		





What needs to be done?

- **Recognition and awareness of Acoustics**
 - Recognise the diverse sectors in which Acoustics operates
 - Awareness of potential job roles in high tech industries as well as 'heavy' industries
- **Address awareness in curricula and careers guidance**
 - Specific mention of Acoustics in school curricula
 - More classical physics?
 - Mention in UCAS subject guides
 - More acoustics elements in relevant university courses such as engineering
- **Address diversity issues**
 - Increase recruitment by expanding the recruitment pool
 - Look at diversity in STEM subjects at School level
- **Make funding available for career-change**
 - Enabling people to diversify
 - Availability of the postgraduate student loan for professional as well as degree courses?