



# Engineering Professors' Council (EPC)

- Represents UK academic engineers
  - 83 university engineering faculties as members
  - Over 7,000 academic staff
  - All branches of engineering
- Primary purpose
  - To provide an influential voice and authoritative conduit through which engineering departments' interests can be represented
  - Key audiences include funders, influencers, employers, professional bodies and Government.
  - Board led, supported by small Executive





#### Degree apprenticeships

- Created to widen access to the professions and develop the higher level technical skills needed by industry and businesses
- Offer an option intended to provide a different way of learning, combining:
  - The academic learning normally associated with higher education, with
  - The experiential learning of the workplace
- In 2016-17, there were 1,745 degree apprenticeship starts
  - 1,655 in England (96%)
  - 840 in STEM subjects (48%)
  - 230 in Engineering (13%)





#### Experience enhanced

- Landmark policy report
- Focus on improving engineering degree apprenticeships
- Outcome of two-year project assessing policy and practice around degree apprenticeships including:
  - Development of green paper discussion document
  - Academics and influencers discussion events
  - Launch of EPC apprenticeships toolkit





#### Essence of report

- Degree apprenticeships = potential game changer
- Calls for changes to deliver this potential
- Promotes a new breed of 'supergrads'
- Highlights over 50 recommendations





#### Four areas covered

- Ensuring best possible learning experience and outcomes for apprentices
- The need for closer collaboration between employers and learning providers
- The importance of building recognition as a professional engineer into the pathways of apprenticeships
- The financial sustainability of degree apprenticeships





#### **RECOMMENDATIONS INCLUDE**





## Addressing messaging

- Complexity of system is "a barrier"
- Appear far too complicated for most people to get their head around easily
  - Learners
  - Influencers
  - Employers (particularly SMEs)
- Government must urgently address complexity of messaging





# Improving branding

- Term 'degree apprenticeships' may have negative associations
  - linked in perception to something less than traditional degrees, rather than an enhanced experience
- DfE explores opportunities to introduce more aspirational terminology
- IfA commissions urgent research into attitudes to different terminology





## Employer-led, not employer-dominated

- Government has been keen to ensure degree apprenticeships are employer-led
- Intention to ensure they meet employers' needs
- However, can become employer-dominated failing to meet apprentices' wider goals
- Needs of SMEs may have been overlooked
- IfA must ensure that development of Standards is more open and an ongoing evolution, allowing greater input from learning providers



#### Resourcing from Levy

- Resources needed:
  - To develop high quality apprenticeships
  - To promote them
  - To improve careers advice
- Estimated £1.28bn unspent funds
- Government relax rules around Apprenticeship Levy to facilitate spend on
  - Developing high-quality apprenticeships,
  - Promoting them
  - Improving careers advice





## Modular approach

- Fully hop-on-hop-off approach precluded by current framework for funding and apprentice standards
- A modular approach to study would:
  - Help attract more mid-career apprentices
  - Ensure non-completion (for reasons other than failure) is not a deadend
- If A review its policies to explore ways to introduce greater flexibility





## **Engagement and belonging**

- Evidence suggests educational gain is optimised through engagement
- Degree apprenticeships must provide the apprentice with a positive learning experience and outcomes
- The sector must rise to the challenge of developing a sense among apprentices that they 'belong' to a community:
  - Their employer
  - Their academic institution
  - Their fellow apprentices
- Degree apprenticeships explicitly considered as part of OfS strategy for wider access, participation and retention



#### Realising the opportunity

- Degree apprenticeships are the one level of apprenticeship where the numbers are rising not falling
- As engineers, we work most effectively when we work together to design effective solutions
- We hope this paper starts a process of discussion and action





## Key recommendation for employers

• The fact that degree apprenticeships are employer led must not create an incentive to train apprentices simply for a specific job, but rather for a career





## **Employers should**

- Consider representation of apprentices in their organisation
- Ensure each apprentice has a mentor
- Be allowed to offset the cost of independent and impartial outreach work against a proportion of their Levy
- Look for opportunities for degree apprentices to act as ambassadors or mentors
- Recruit on the basis of a demonstrable potential to succeed in the academic environment as well as the workplace and
- Work closely with learning providers to understand how such potential may be assessed



#### Learning providers should

- Provide opportunities for additional support in areas, such as maths and study skills, without which some apprentices will struggle.
- Be able to include their apprentices in the National Student Survey





#### **Both should**

- Develop industrial work packages which represent consolidation of university work packages and vice versa.
- Promote degree apprenticeships as not simply equal to a degree, but providing more than a degree, combining knowledge and understanding with workplace knowledge and competences.
- Design programmes around maximising opportunities for teaching contact





#### **Both should**

- Mutually understand and integrate into guidelines and agreements the principles, channels and opportunities for communication between degree apprenticeship stakeholders
- Share a clear schedule of regular and frequent communication – beyond the written reports on apprentices' progress.
- Consider adopting a modular approach.





#### **Both should**

- Share a continuing professional development plan for key staff in both the employer and the HEI to ensure they are suitably skilled to support the apprenticeship programme and the apprentices themselves.
- Support apprentices to develop reflection skills to monitor their own progress in terms of which skills they are developing and how.
- Support a reflective portfolio, owned by apprentices, as well as continuous assessment and feedback.



# Report influence and reach so far

- High profile launch at Royal Academy of Engineering
- Responses from
  - Dr Hayaatun Sillem (Chief Executive, Royal Academy of Engineering)
  - Sir Gerry Berragan (Chief Executive, Institute for Apprenticeships)
  - Keith Smith (Apprenticeships Director, Education and Skills Funding Agency)
- Twitter debate
- Media coverage in the Times and FE Weekly
- Follow up meetings ongoing
- Further work with RA Engineering underway



# Thank you

- Experience enhanced
  - http://epc.ac.uk/experience-enhanced/
  - http://epc.ac.uk/wp-content/uploads/2018/09/Experience-enhanced.pdf
  - http://epc.ac.uk/creating-a-new-breed-of-supergrads/
- Stella Fowler s.fowler@epc.ac.uk
  - FPC Executive
  - Policy and Research lead
  - Co-author of report
- Questions?





# Discussion and feedback points

- Do you think the new levy system is having a negative impact on the delivery of engineering apprenticeships? How so?
- What do you think are the effects of the new apprenticeships standards on the delivery and structure of apprenticeships?
- How have QA measures and End Point Assessments influenced the quality and readiness of apprentices?
- What are the impacts on apprenticeships to the devolved nations, if any?
- Do you think there are other challenges facing engineering apprenticeships?