

Training of Engineers

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A forum for Academic Leaders in
Electrical Engineering and Allied Technologies



**Professors & Heads of
Mechanical & Manufacturing
Engineering**

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The Institution of
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Training of Engineers

Education and skills at National Grid

External perspective

Skills priorities



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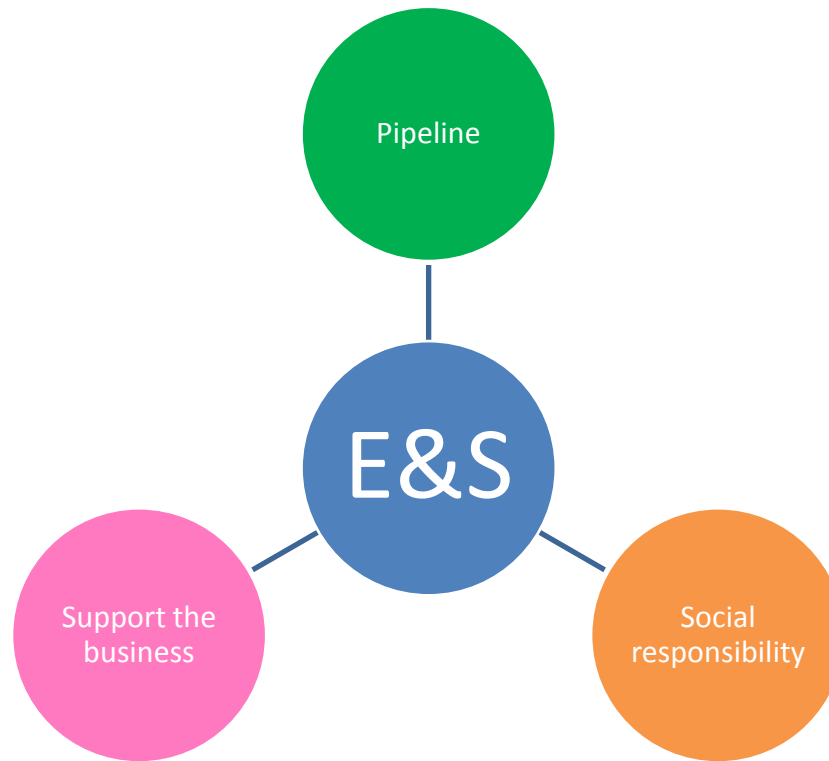
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Education and skills at National Grid



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Training in practice



OurAcademy
what will you learn today?



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The skills need case

Skill Supply

Demographic challenges

- % of over 50's in Energy
- 50% of schools – no Females studying Physics at A-level
- Lack of aspiration for Engineering careers / systemic under-supply
- Limited NG brand visibility



Demand for Skills increasing

- Productivity race in growth markets
- High competition for skills
- New technologies/changing skill-sets
- RIIO – A new way of working



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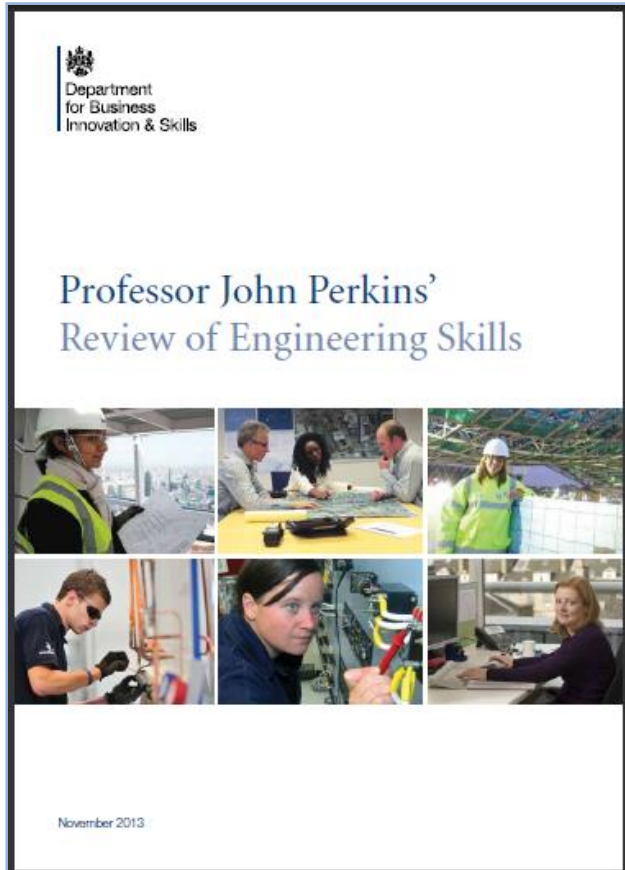
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Perkins report findings



- Retention is important in the short term
- Need to inspire the next generation
- Academic foundations must be in place
- Vocational education should increase
- Higher education requires additional resource



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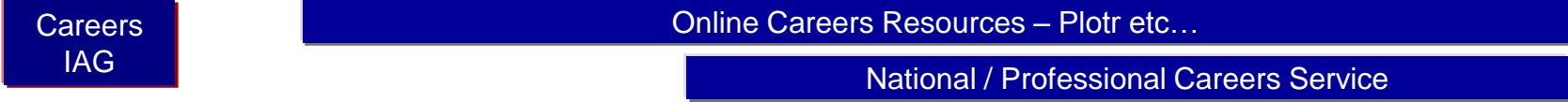
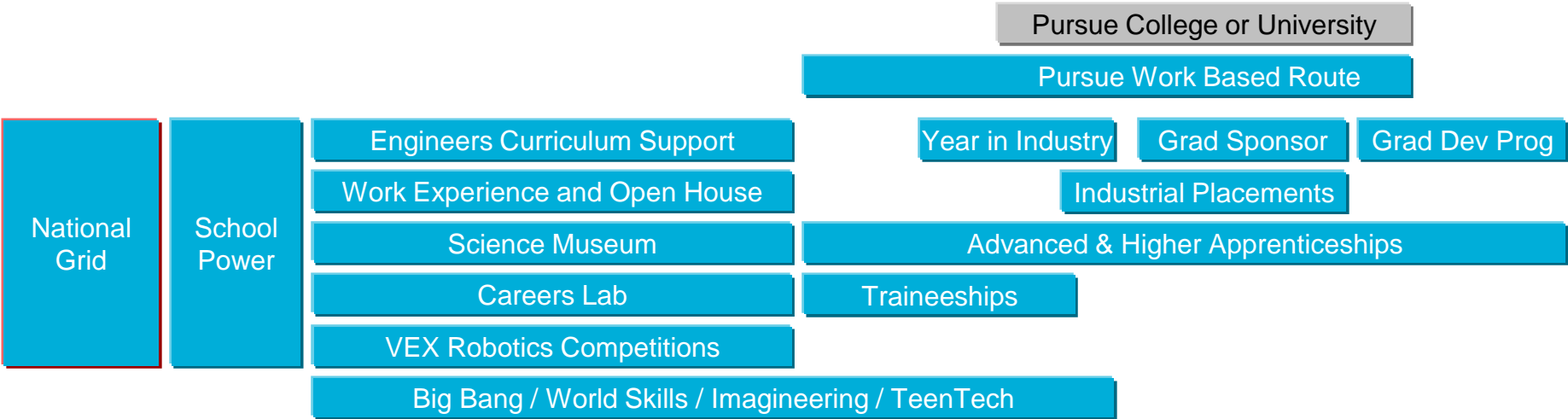
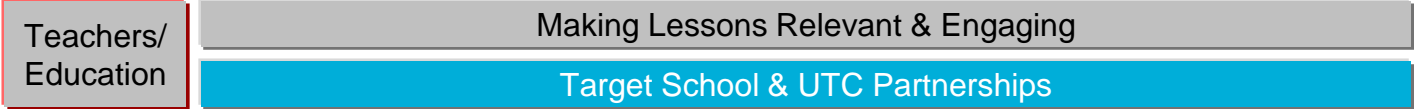
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The pipeline is fundamental



Age / Decisions	5 - 10 KS1/2	11	12	13 KS3	14	15	16 KS4	17	18 KS5	18+ Higher Education 18+ Work Based Route
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Industry priorities



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Academia priorities

Careers Advice



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Summary

Consider the full supply chain

We need greater collaboration

We need to inspire future engineers



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