



Future support for strategically important subjects

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Summary

- Context of new fees and funding arrangements
- Current health of STEM and engineering
- HEFCE's SIVS policy and interventions
- Challenges for the future









Students at the heart of the system







Key policy themes

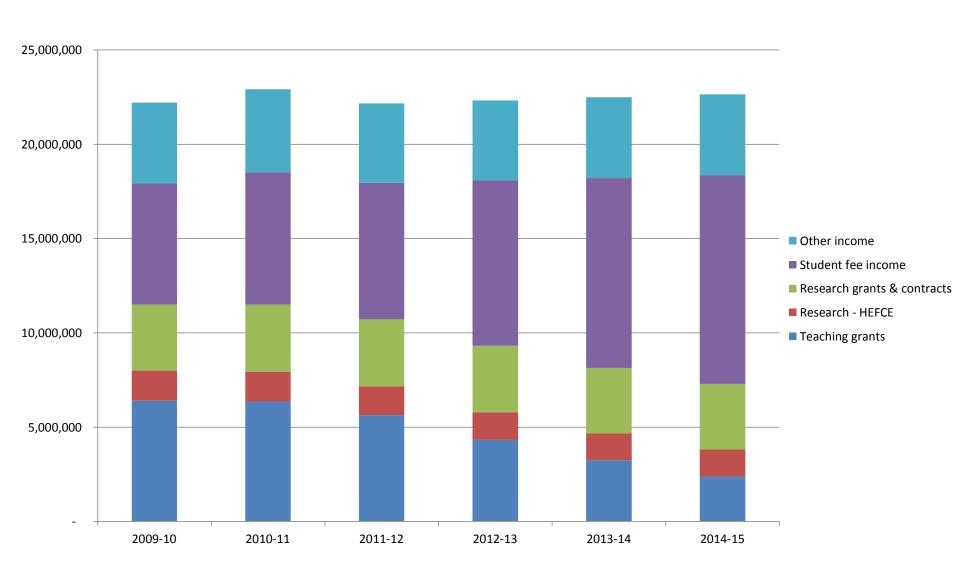
- A more diverse, dynamic and open system of undergraduate education
- A continuing focus on fair access and widening participation
- A commitment to invest in postgraduate education
- Sustained funding for science and research in cash terms (including charity and business support) and investment in the next generation of researchers
- A willingness to review progress and deal with the unintended consequences of change







Income to HEIs in England (real terms)



Engineering is strategically important....













Engineering UK 2013: The state of engineering



- Report highlights need to double the number of recruits into engineering to meet future demand
- Triple the number of apprenticeships
- Increasing numbers studying physics at A-level and GCSE will be key to success
- Engineering fundamental to UK's future economic growth:
 - £1.06 trillion turnover in FY 2010-11
 - Industry employs 5.4 million people
 - 2.74 million more job openings projected from 2010 to 2020

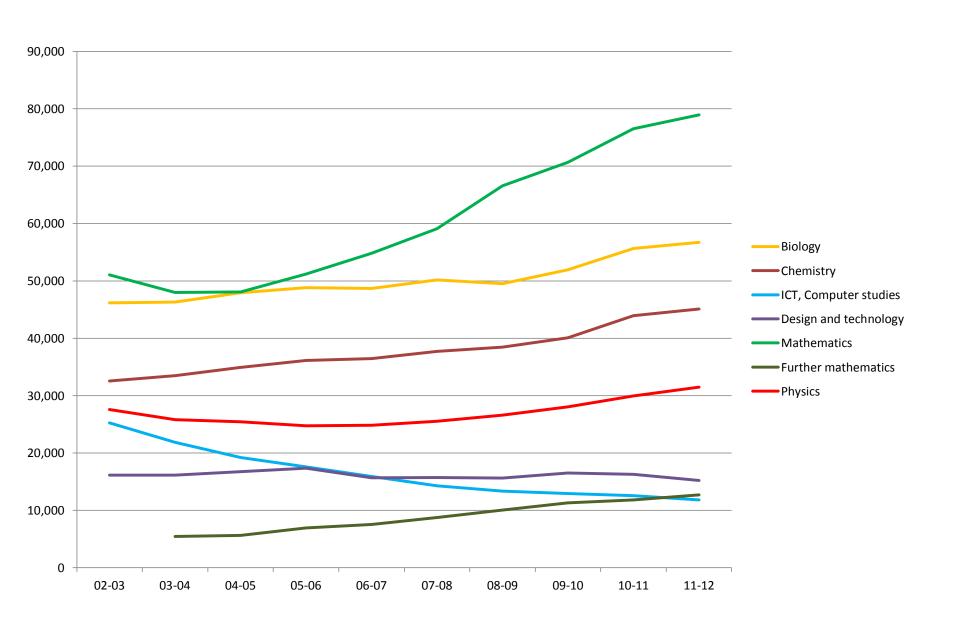




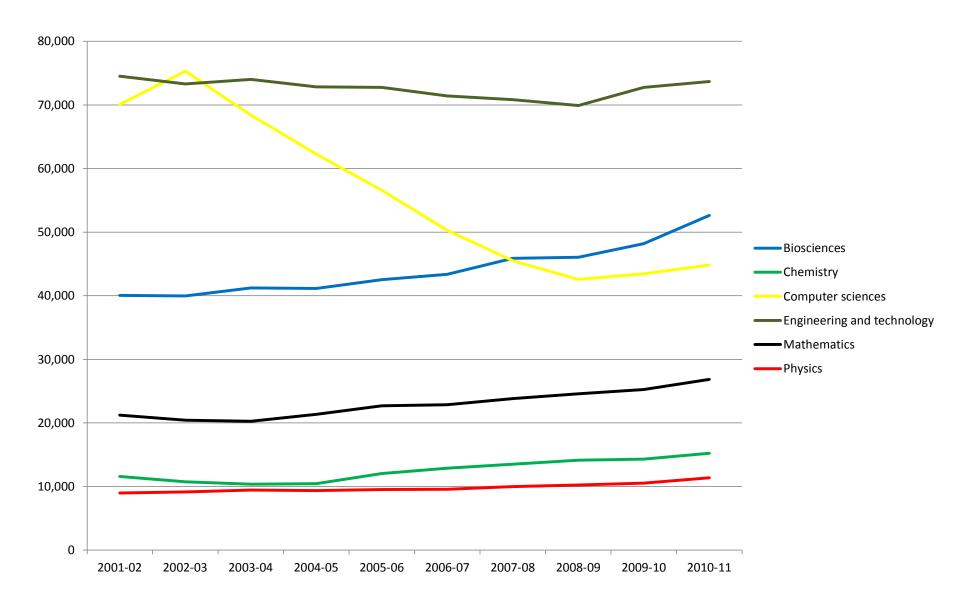




STEM A-level numbers

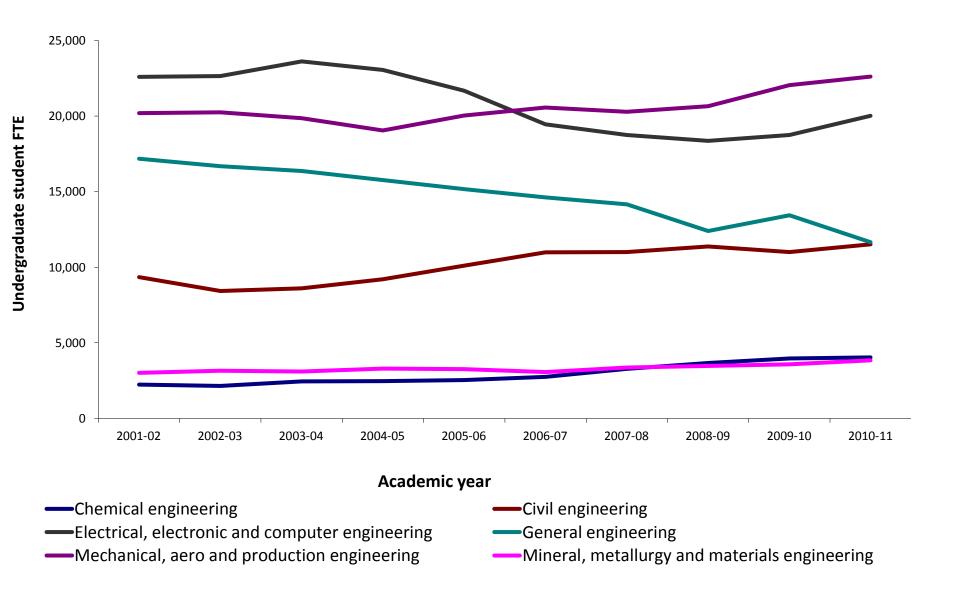


STEM students in higher education*

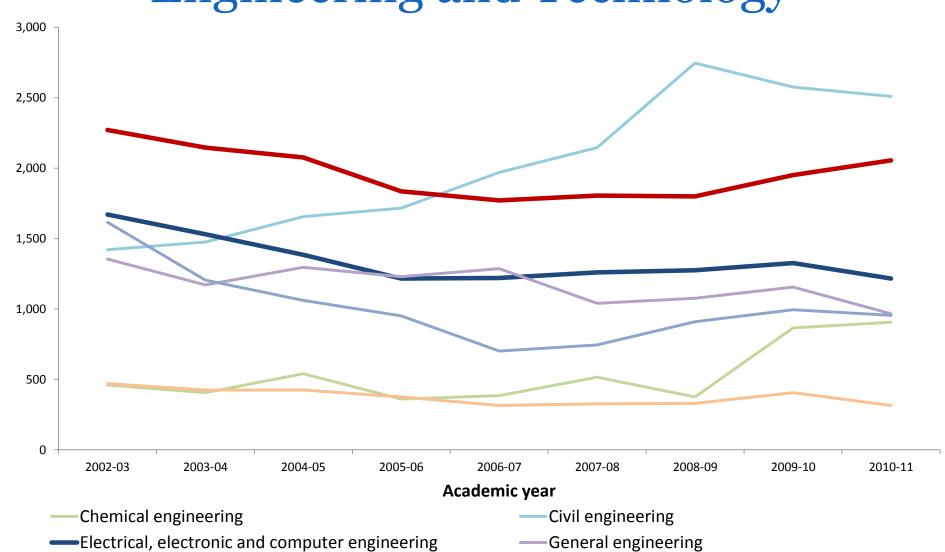


*HESA – excludes anatomy/physiology, pharmacy/pharmacology, earth, marine and environmental sciences, and clinical subjects.

Total UG numbers in engineering



UK-domiciled PGT numbers in Engineering and Technology

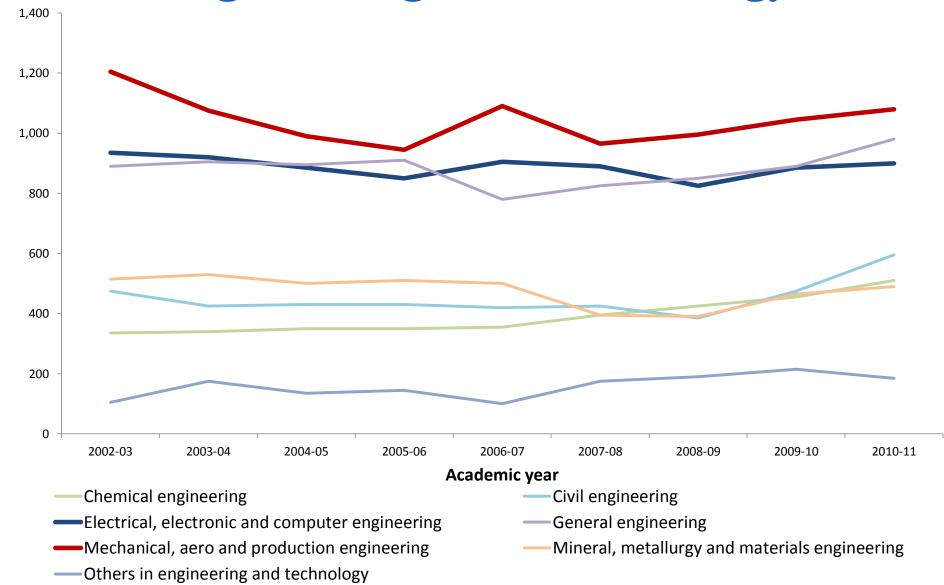


Mineral, metallurgy and materials engineering

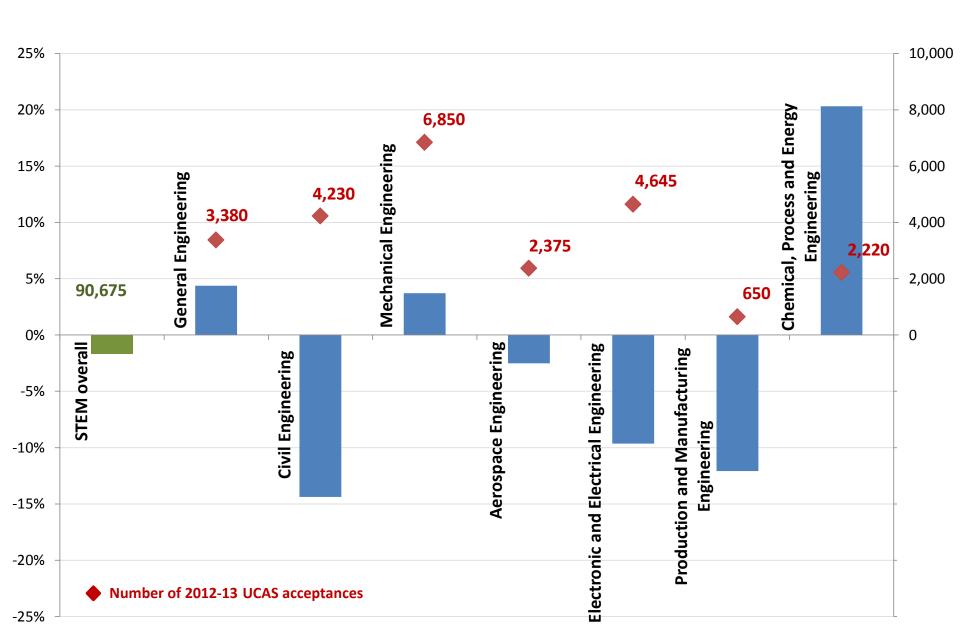
Mechanical, aero and production engineering

Others in engineering and technology

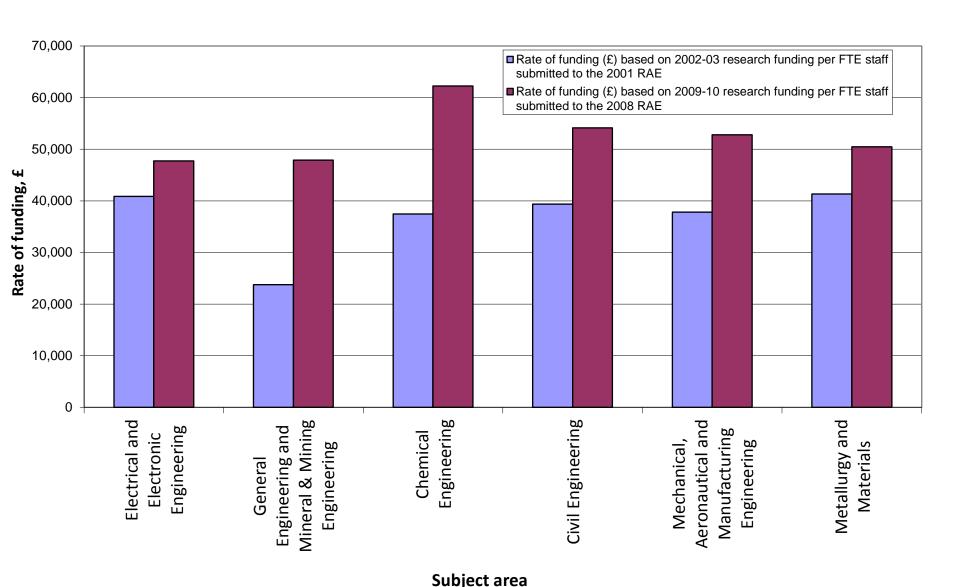
UK-domiciled PGR numbers in Engineering and Technology



2012 UCAS acceptances to engineering

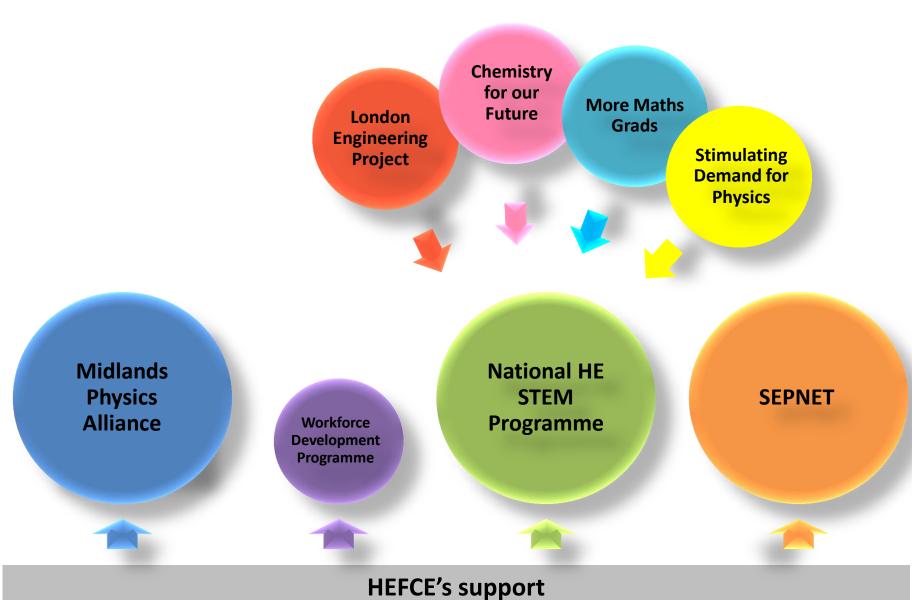


Rates of HEFCE research funding per research active academic staff FTE submitted in recent RAEs (England)



HEFCE's role





HEFCE's support for STEM

New approach to SIVS



- Consulted between February and March 2012 on a new SIVS policy approach
- HEFCE will provide continued support for those subjects identified as vulnerable including STEM
- HEFCE will no longer maintain a single list of SIVS but we will assess ongoing risks and consider interventions in conjunction with partner organisations
- HEFCE SIVS advisory group







HEFCE's ongoing support for SIVS and STEM



- Core funding in Band B, which with fees should increase overall resourcing levels
- Continuation of additional £23m funding for very high cost STEM subjects
- Protection for chemistry, engineering, maths, physics and MFL within 'core and margin'
- Additional £39m for postgraduate taught and £35m for postgraduate research
- Monitoring of impact of the reforms and response through Catalyst Fund





UK Research Partnership Investment Fund





Challenges for the future

- Student demand: will 13-14 move back to trend and how will the government respond?
- Regulation: how to protect the student interest and the government/public interest?
- Graduate employment: will the jobs market improve and how will this influence student choice?
- Postgraduate education: what will happen to student demand and how should PGT and PGR be financed?
- Institutions: how will behaviour change in response to the reforms, to the REF and to international developments?
- Public spending: what are the prospects from 15-16?











Thank you for listening

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