EPSRC

John Wand
Head of Materials and Nanotechnology
The Engineering and Physical Sciences Research Council

- We are the main UK government agency for funding research and training in engineering and the physical sciences.

- We invest around £650 million a year so the UK will be prepared for the next generation of technological change.
The Research Councils

Department of Innovation, Universities and Skills

Research Councils UK

STFC
Science & Technology Facilities Council

ESRC

MRC

EPSRC

NERC

BBSRC

AHRC

Council Chairman: John Armitt

Chief Executive: David Delpy
EPSRC Strategic Objectives

1. Supporting world-class research in the engineering and physical sciences, addressing the challenges facing the UK economy and society.
2. Developing talented scientists and engineers.
3. Supporting the knowledge economy.
4. Public engagement with research.
5. Effective and efficient operations.
Essential Platform for the Knowledge Economy and much of the Rest of Science

Towards Next Generation Health Care

Digital Economy

NanoScience through Engineering to application

Essential Platform for the Knowledge Economy and much of the Rest of Science

Securing the Future

Energy

Towards Better Exploitation

Maximise pull through of engineering and physical sciences for better health

Addressing the key UK energy & climate challenges

Providing Leadership, GC’s, Focus.

Actively fostering partnerships across acad/industry

Pulling through ICT to have transformational impact on business

EPSRC: 08/09 to 10/11

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ENERGY: CSR07 PROPOSALS

Long term-2020-2050 focus

Grow work on:
• demand and consumption
• security of supply
• other energy vectors
• Transport

Sustain work on power generation

Additional funding
• Specialised PhDs e.g. EngD
• UKERC
• fusion (JET, ITER, MAST)
• fission, materials
• more strategic partnerships

Energy Technologies Institute
Public-private partnership
Funding from EPSRC (60%) and TSB (40%)
EPSRC MATERIALS PROGRAMME

KEY FEATURES OF MATERIALS RESEARCH AND TRAINING

Mathematics, Chemistry & Physics

Chemical, Process, Manufacturing Engineering & IT

Mechanical, Civil Aeronautical, Electrical Eng. & IT

STRUCTURE

PROCESSING

PERFORMANCE
Materials Programme Funding for Energy, by value

Overall (02/03 - 06/07)

- Energy Conservation (Building Materials etc) 32%
- Energy Efficiency 9%
- Energy Storage 4%
- Energy Transmission 4%
- Power Generation - Fossil 28%
- Power Generation - General 16%
- Power Generation - nuclear 5%
- Power Generation - non-nuclear 4%

£11M total value