



Engineering and
Physical Sciences
Research Council

Nuclear Fission Portfolio

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Nuclear Fission Strategy



Balance of capability

- Maintain capability across nuclear sector
- Build communities
- Provide skilled people across career stages

Strategic focus

- Decommissioning, waste management
- Fuel recycling and reprocessing
- Advanced nuclear technologies
- Reactor plant life extension
- New nuclear builds
- Manage delivery of research infrastructure requirements – NNUF
- International engagement

EPSRC Funding Schemes



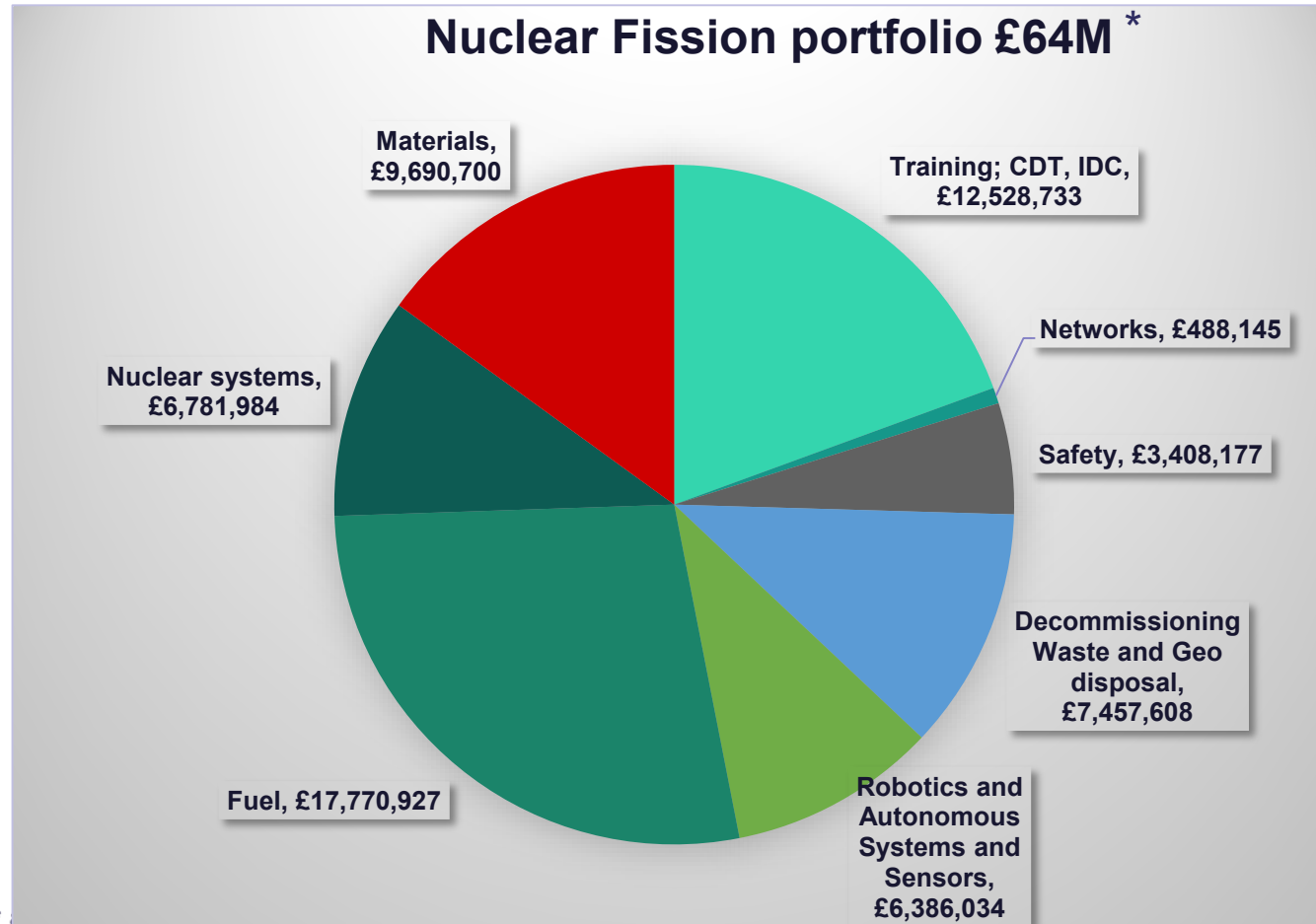
Standard Grants

- Responsive Mode/Standard Research
- Fellowships
- New Investigator Awards
- OTGs/visiting fellowships
- Network Grants
- Programme Grants

Targeted calls

Training

Current Nuclear Portfolio







*Does not include investments in NNUF

Nuclear fission



- 63 non NNUF live grants, £64m
- 16 live NNUF grants (£55m), 10 further to start (01/10/21; approx. £22M)

International engagement

-  UK India with DAE. NTP delays
-  NEUP – call open, deadline 22/09/22 (up to £2.5M)
-  UK Japan with MEXT- 2 projects funded (2021)
-  UK RoKorea with MSIP, possible 2022/23

NEUP



The Nuclear Energy University Program funds nuclear energy research and equipment upgrades at US colleges and universities.

EPSRC will support the UK component of proposals

Peer review process carried out by DoE

Funding available – up to £2.5M

Appendix A of FOA

- Understanding, predicting, and optimizing the physical properties, structure, and dynamics of molten salts (FC-1.2)
- Next generation light water reactor fuels for SMR applications (FC-2.1)
- Spent fuel and waste disposition: disposal (FC-4.1)
- Advanced small modular reactor research and development (RC-6)
- Automated optimization for reactor core design (NEAMS-2).





Thank you

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