The Cockcroft Institute
of Accelerator Science and Technology

Beaming into matter and life

COCKCROFT STRATEGY MAP 2014-2020

Vision

Continue to be a globally recognised, leading, innovative and inspiring international centre of excellence in accelerator science and technology.

Mission

To develop advanced particle accelerators as enablers of world class science and technology via cutting-edge research, lead national and international projects, educate and train the next generation of scientists and engineers, address societal challenges in energy, environment, health and security and contribute to knowledge-based economy.

Core Values

Research Excellence, Technological Innovation, Fiscal Integrity, Developing People and Skills, Inspiring the Next Generation, Global Organisation of Choice, Everyone counts.

Stakeholders

Our staff can expect:

Engagement offering excellent career opportunities

Working at the leading edge of knowledge and innovation

Respectful and supportive work environment

Prestige and association with a pioneering world-class institution

Our partners can expect:

Research excellence reflected in academic association

Access to state-of-the-art and fit-for-purpose facilities

Involvement in national and international projects and access to world leading expertise in the field

Financial and reputational reward for investment

Strategic Goals

- World-Class Science
- Transformative Technologies
- Globally Unique Skills Base
- Societal Impact: Energy, Environment, Health, Security

Strategic Enablers

- International Collaboration
- Effective and Efficient Organisation
- Developing people and Core Competencies
- Financial Sustainability and Growth

www.cockcroft.ac.uk

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KEY PERFORMANCE INDICATORS 2020

Research

- Transformative articles in high visibility refereed journals (e.g. Science/ Nature)
- Keynote Address/Plenary talks at international events - 1/partner/year
- Locally organised thematic workshops -1/partner/year
- Refereed publication - 2/academic/year

Education and Outreach

- 1 Masterclass/year
- 2 Outreach events/year
- School visits every year
- Participation in international framework for education and training in accelerator science and engineering
- Increase Ph.D. students recruited/year

International

- One major international lab as key partner (e.g. CERN)
- Responsible for major work packages in European/ international projects
- International students and visiting scientists/engineers recruited each year

Developing People/Expertise

- Increase doctoral level professional staff
- Enhance expertise in lasers/ photonics/THz
- Enhance expertise in high frequency microwaves, materials and plasmas
- Each academic to attend one conference/training per year

Financial Sustainability and Growth

- Maintain and enhance CI STFC core grant beyond March 2017
- Increase grant application volume relative to core grant 3:1 (aspirational)
- Research grant income: £50-100k/academic/year
- Volume of industrial take-up no less than 10% of core research

Resources/Facilities

- Develop more than one operating and fully funded accelerator R&D Test Facilities locally at Daresbury and University campuses
- Establish recognised science and industrial programs at test facilities locally at Daresbury and University campuses

MANCHESTER 1824
The University of Manchester

UNIVERSITY OF LIVERPOOL

LANCASTER UNIVERSITY

Science & Technology Facilities Council