

Welcome to the Cockcroft Institute !!!



Inauguration in 2006



**The Opening of the Cockcroft Institute
by the Minister of Science, Lord Sainsbury**

*“When we talk about world-class science we
need look no further than the North West and
the Cockcroft Institute”*

- Prime Minister, Tony Blair (2006)

The Mission

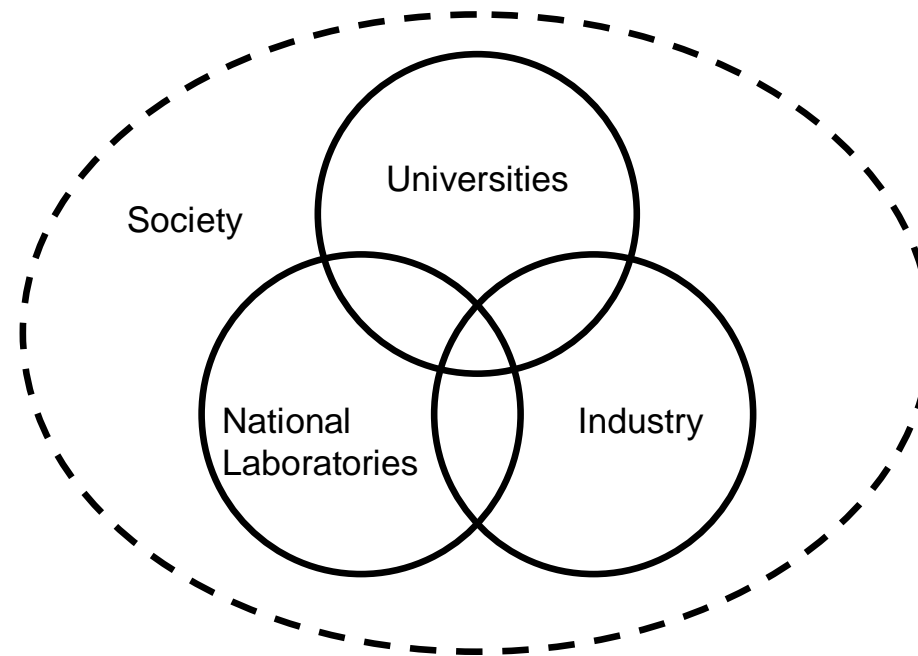
Navigate by the stars, not by the light of every ship passing by...

- **Generic R&D at the frontier of Accelerator Science and Technology;**
- **Project-specific R&D in Accelerator Science and Technology;**
- **Leadership and management of national deliverables to international facilities;**
- **Support in design, construction and operation of national and international facilities;**
- **Technology transfer to (and Knowledge Exchange with) industry;**
- **Seamless involvement of the Universities and Research Councils ;**
- **Education and training to ensure a flourishing next generation of scientists.**

The Cockcroft Model

(Universities) + (STFC: ASTeC and elements at DL) + (NWDA)
+
(Integration of all the above)

CI is not separate from ASTeC or the universities but inclusive of all.



Stakeholders



Core funding



Imperial College
Collaboration (emerging)



2 FTEs + Labs
Equipment +
Facilities

DITANET
4 FTE



Building



1FTE



4 Acad.
(3+1)



**Cockcroft
Institute**

(55 FTEs of professional
scientists and
engineers)



4 Acad.
(3+1)



4 Acad.
(3+1)

Academic (Faculty,
Students, PostDocs)
[~ 50 FTEs] + Labs

(+3 FTEs at Univs. Funded
by STFC: 1+2)

Appr. Distribution of Professional Effort (Excluding students and PDRAs)

- Photon Source: NLS, EU source, 5th Gen. Light Source: 20 FTEs
- ILC/CLIC: 10 FTEs
- LHC, LHC Hi-Lumi, LHeC: 5.5 FTEs
- Neutrino factory, Muon Collider: 4.5 FTEs
- Antimatter/Antiproton Decelerator/FAIR: 2 FTE
- Super KEK-B (Japan)/Super-B (Frascati): 1 FTE
- ISIS, ESS, HIE-ISOLDE: 4 FTEs
- Test facilities: ALICE/FFAGs/EMMA: 20.5 FTEs
- Health: Hadron Therapy, Nuclear Medicine: 3 FTEs
- Energy, ADSR, Photovoltaic: 4 FTEs
- Security: Compact Linacs for X-ray Scanning: 3.5 FTEs
- Cavity Search for “Hidden Quanta” (Photons and Axions): 1 FTE
- Tevatron, Project-X, JLamp, Berkeley and SLAC Light Source Developments, Spring-8, TAC, FLASH and XFEL: symbolic collaborations

Total Effort: 123 FTEs

- **Academic faculty: 20**
(Liverpool, Manchester, Lancaster, Imperial)
- **Students: 27**
(Liverpool, Manchester, Lancaster, Imperial, Brunel, Birmingham, Durham, Strathclyde, Dundee, Visiting students from Japan, India, China, Thailand, EU)
- **Post-docs: 18** (all above academic partners)
- **Professional staff: 55** (STFC/ASTeC)
- **Industry : 3** (Tech-X, RapiScan UK, e2V)