

APPENDIX

Some of the main projects receiving funding under Cycle 4 of the PRTLII

- A *National Bio-photonics Imaging Platform* that will lead to the translation of basic science concepts from the laboratory to sick people and to a better understanding of the role of particular molecules and cells in disease and treatment.
- A *National Programme of Research on Knowledge, Innovation, Society and Space (KISS)* will examine issues around the social, cultural and societal transformations shaping contemporary Ireland, acting as a key resource for Irish and European policymakers in the 21st century.
- The funding will make a significant and direct contribution to the doubling of Ph.D. output in line with the Government's Strategy for Science Technology and Innovation (an additional 200 Post-graduates, 150 Senior Researchers and an additional 894 work spaces will be created).
- A *National Graduate Enhancement Programme in (Bio)pharmaceuticals and Pharmacological Sciences* will form a higher-education academic-led 'biopharmaceutics corridor' from Belfast to Cork where in excess of 80% of Ireland's (bio)pharmaceutical companies lie. This programme will exceed current demand for researchers in order to stimulate further demand.
- National facilities for Good Manufacturing Practise (GMP) and Human Dietary Intervention Studies in the *FoodIreland* programme, that will enable research into functional foods and omega-3 rich oils, the role of foods in healthy aging and the impact of nutrient intake on diseases of aging, e.g., osteoporosis and Alzheimer's disease.
- As part of €46.6million invested in the humanities and social sciences, the *Digital Humanities Observatory (DHO)* will manage and co-ordinate the increasingly complex e-resources created in the arts and humanities. This major infrastructure is part of a wider *Humanities Serving Irish Society (HSIS)* programme which received approximately €28 million and represents a major change in the scope and capacity for humanities research, teaching and training in Ireland, with researchers in humanities disciplines in all higher-education institutions in Ireland, for the first time, coming together in a common forum.
- 17% of funding goes to the institutes of technology for, among other projects, a *Network Embedded Systems (NEMBES)* building and state-of-the-art facilities to be located at Cork Institute of Technology. Embedded systems have become a pervasive part of almost every aspect of working and living – 90% of the world's microprocessors are embedded – and almost every modern convenience, industry and business would grind to a halt without them.