



Professor Terry Wilkins
CEO NanoManufacturing Institute,
University of Leeds, UK

Professor Wilkins has Bachelor and PhD degrees in (catalyst) chemistry from the University of London. He has 32 years industrial experience as a chemist, engineer and molecular biologist, leading innovative high technology R&D centres. His industrial career began with Amersham International Plc (now GE Biomedical) with senior management roles in R&D, manufacturing, QA and business development in nuclear medicine, nanoparticle clinical diagnostics and molecular biology.

He joined the Nobel Laureate Christian Du Duve in his Institute for Cellular & Molecular Pathology in the Catholic University of Louvain, Brussels, in 1985 as *Directeur Scientifique*. His collaboration with Professor Pierre Masson created novel high-throughput nanoparticle immunoassay systems together with 140 clinical assays commercialised by US, German and Japanese healthcare multinationals.

He joined ICI Plc in 1988 as CTO of its Clinical Diagnostics business. His centre's collaboration with Sir Alec Jeffries at the Lister Institute, UK, and Sir Alex Markham, ICI, (now Leeds U) led to the World's first commercial DNA fingerprinting laboratories in the US and UK. From 1993 he led ICI's corporate Measurement & Control Engineering Centre producing substantial profit and environmental improvements for ICI's manufacturing operations worldwide. As Strategic Research Director in 2000, he created and led ICI's world-leading global High-Throughput Centre for nanomaterials discovery and new product development, as a corner stone of the company's corporate and global businesses' technology strategies.

In 2005 joined Leeds University as CEO to create a new Nanomanufacturing Institute (NMI) where he holds the Yorkshire Forward Professorial Chair in Nanomanufacturing Innovation. The NMI is an interdisciplinary institute operating across 5 faculties and 20 research centres across the University. It has 300 researchers and academic staff. The institute's research addresses the scale up and manufacturing of novel nanomaterials to intermediates and nano-enabled finished goods for the healthcare, consumer, industrial (inc. energy, transport & construction), nano-electronics and ICT. In addition, it conducts research into business management and government strategic policy making for nanomanufacturing.

University/Professional

- BSc & PhD degrees in chemistry, University of London
- Fellow Royal Society of Chemistry
- Chartered Chemist
- Fellow & Vice President of Institute of Measurement & Control
- Chartered Engineer
- 70 Publications, 8 Patents

Awards



- Prince of Wales Award for Industrial Innovation & production (Free analyte nanoparticle clinical assay system for diagnosis of many diseases)
- ICI Supreme Award for Innovation & Creativity in Engineering, Science & Technology (Re-engineering nano-crystallite titanium dioxide manufacturing worldwide for profit)
- Liveryman, Worshipful Company of Scientific Instrument Makers
- Freedom of the City of London for his work in scientific instrumentation

EU and Government Roles & Personal Research Interests

He has been an advisor to the UK Government and the European Commission since 1990 on research, manufacturing, nanoscience, standards, and metrology. He is currently, Chairman of the EU FP7 Nano S&T, Materials and Production Technologies (NMP) Programme Expert Advisory Group (RTD budget €3.54 billion). He has led many successful large scale collaborative translational research programmes both in the UK and in the EU uniquely from Frameworks 1-7. His current research interests are: i) nanomedicine, ii) nanoparticle manufacturing, iii) spintronic devices, iv) EH&S nanotoxicology risks and v) business management, entrepreneurship and government RTD policy making for nanotechnology.