Profile #1272

Profile #1272 - Cyprus University of Technology - Cyprus

Date: 2007/03/07	Deadline: 2009/01/01

Contact

Organisation	Cyprus University of Technology	**Department**	Mechanical and Materials Engineering
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Organisation

Type:	Research Organisation & Universities
Is a Small and Medium Sized Enterprise (SME)? NO	
Number of Employees	200
Description of research activity:	The Department aims in the education of high level scientists and the promotion of research and relative applications in the fields of mechanical installations, systems, automation in the industry, manufacturing, agriculture, land, air and marine transports, energy management, renewable sources and alternative forms of energy, metallic and intermetallic materials, ceramic materials, polymers, composite materials, nanomaterials and biomaterials molecular electronics and photonics Bioengineering, nanotechnology, and the development of sensors and biomedical implants.

Former participation in an FP European project? NO

Research topics

• HEALTH- 2009-1.2-3: Novel MR-compatible PET detectors for simultaneous PET/MRI imaging. FP7-HEALTH-2009-single-stage.

• HEALTH- 2009-2.4.2-1: Improved or new therapeutic approaches for the treatment of heart failure. FP7-HEALTH-2009-single-stage.

• HEALTH- 2009-4.1-1: Monitoring tool and technology transfer analysis for health grants during FP7. FP7-HEALTH-2009-single-stage.
• HEALTH- 2009-4.1-2: Dissemination of results from research in Life Sciences and Biotechnology for Health to the general public and/or information multipliers. FP7-HEALTH-2009-single-stage.

Expertise/commitment offered

Keywords specifying the expertise:	cardiovascular research, material, tissue characterisation, MRI, MSCT, Ultrasound, LDV, PIV, SEM, TEM, AFM,
Description of the expertise:	Experimental and theoretical methods in cardiovascular modelling. Image based arterial modelling and computational hemodynamics, Novel Ultrasound & Magnetic resonance imaging techniques for blood flow, Novel cardiovascular implants and devices and biomaterials, Nanotechnology, Drug Delivery. Cardiovascular Research: Experimental and Theoretical Theoretical: High Performance Computing, Mesh Generation, Image reconstruction capabilities Experimental:Magnetic Resonance Imaging systems (1.5 and 3T), MultiSlice Computed Tomography, Intravascular Ultrasound, Laser Doppler Velocimetry, Particle image Velocimetry Rapid Prototyping systems/Stereolithography, Materials and tissue characterization: Scan Electron Microscopy Systems, Atomic Force Microscopy systems Transmission electron Microscopy systems Development of biosensors and drug delivery implants
Commitment offered	Research,Technology

Expectations

Term commitment:	Long (> 3 years)
Expected results for your organisation:	Research participation with other EU partners in pursuit of Novel Diagnostic and Therapeutic Procedures Publications Intellectual Property