

INDUSTRY ACADEMIA PATHWAYS AND PARTNERSHIPS (IAPP)

SA-EU SME FP7 INFORMATION SESSION

9 September 2009

Cape Town



Overview of presentation

- Scope for Marie Curie Actions
- IAPP objectives and main features
- Marie Curie Actions' evaluation criteria
- Why international cooperation in IAPP
- Why IAPP cooperation with South Africa
- South Africa's expertise of interest to Europe
- South Africa IAPP success story
- DST Instruments to support SA FP7 participation



Scope and overview

- Human resource development in R&D in Europe
- Numerous, well-trained, motivated researchers
- Attract students to SET careers
- Provide skills and sustainable career development

- Respond to calls for proposals
- Proposals drafted in conjunction with EU partners



IAPP

- The objective is to encourage knowledge sharing, cultural exchange, technical expertise and sustainable cooperation between industry and academia (in particular SMEs)
- Research staff and technical & managerial staff of all levels of experience
- Enhance sustainable cooperation between partners of both sectors in joint projects
- Joint research projects or programmes addressing barriers which inhibit movement of research between public and private sectors



MAIN FEATURES

- Longer-term (4yrs full cost) co-operation between sectors ≥ 1 university/research centre + ≥ 1 private sector; ≥ 2 different Member States/Associated countries
- Open to researchers from Third countries
- 2-way staff secondments / hosting of experienced researchers from outside the partnership for 2 months to 2 yrs
- Recruited experienced staff 12-24 months
- Organisation of workshops/conferences, including for researchers from outside the partnership
- Special measure: equipment costs for SMEs
- Call opened on 24 April - closed 27 July



MCA evaluation criteria

- Quality of exchange programme (25%)
 - Transfer of knowledge (30%)
 - Implementation (15%)
 - Impact (30%)
- > 3 points each and total ≥ 13



Why international cooperation between industry and academia

- Advance knowledge generation and innovation through shared global learning
- Develop and strengthen economic and other cooperation, including trade opportunities
- Promote more sustainable global human capital development
- Supports internationalisation of European Research Area
- Access to unique international knowledge and expertise



Why IAPP cooperation with South Africa

- Enabling environment for cooperation such as economic, cultural and other collaboration ties between Europe and South Africa
- South African institutions well experienced with modalities FP7 participation and can rely on institutional support
- Strong S&T cooperation with Europe including bilateral ties
- South Africa has S&T expertise of interest to Europe



South African S&T expertise of interest to Europe

- **Aerospace:** micro-satellites for Earth observation, advanced materials, partnerships with Airbus
- **Agriculture and food:** drought and disease resistant crops, food safety and quality, SA major food exporter to Europe
- **Advanced manufacturing technologies:** strong automotive industry and associated technology programme mechatronics, national nanotechnology programme

South African S&T expertise of interest to Europe

- **Transport and logistics:** Intelligent transport systems
- **Energy:** Synthetic fuels, hydrogen and fuel cell, biofuels, PV solar
- **Environment:** Water resource management, climate change
- **ICT:** software development, e-health, e-education, speech and language technologies, mobile and wireless technologies
- **Health:** vaccine and drug development, especially infectious diseases



South Africa IAPP success story: GEO-Install

Project goal:

- Develop new numerical tools for modelling large deformation problems in geotechnics associated with large deformations that occur when installing geotechnical structures

Partners:

- Universities: UK, Germany, Netherlands, Norway, South Africa
- Industry: UK, Netherlands,
- Research centre: Norway



South Africa IAPP success story: GEO-Install

Immediate project impact:

- Knowledge transfer between disciplines of mechanical engineering and soil behaviour
- Contribution of unique expertise by each partner

End of project:

- Commercially available software package, expansion of South African academic group

Instruments to support cooperation in the framework Programme

Advisory support

- South African NCP Network: Mobility NCP (Mamohloding Tlhagale): Mamohloding.tlhagale@dst.gov.za
- ESASTAP helpdesk
- S&T office in Brussels

Partner-matching services

- ESASTAP mobility portal
- Support through Brussels office, to find and liaise with South African partners
- NCP network



Instruments to support cooperation in the framework Programme

Financial support

- **Seed funding** to support South African researchers travel costs to Europe to meet with FP7 partners (or for Europeans to South Africa)
- **Strategic Co-Investment** for successful South African FP7 participants for part of FP7 project costs unfunded by EC



Thank you!

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