

# Manufacturing Engineering Centre, Cardiff Univ., UK

- **Accredited Centre of Excellence**
- **Coordination during FP6 – IST & NMP:**
  - 2 NoEs, 2 STREPs
- **Partnership during FP6 – IST & NMP:**
  - 3 IPs, 3 STREPs, 2 CAs, 1 SSA
- **Over €12.5 million EU funding since 2003**
- **Relevant projects include**
  - I\*PROMS Network of Excellence €1,582,276
  - RESCUER €297,444
  - REHAROB €200,000

<http://www.cf.ac.uk>



# Multi-Roles Shadow Robot for Independent Living

Development of remote controlled shadow robot to assist independent living; the robot can provide multiple functionalities by switching between different roles and profiles.

## Objectives

- Advanced prototypes of multi-roles shadow robot for independent living and active aging;
- Develop and apply engineering approaches for developing remote controlled robotic system that cater for real-time requirements and ensure the reliability, flexibility, robustness and safety;
- Develop advanced operator profiles and enhanced human-machine interaction via new ways of combining statistical, knowledge driven and cognitive approaches

# Relevance to the Call

- ICT-2007.2.1 Cognitive systems, interaction, robotics
  - Creating new products and services, and enhancing existing ones
- ICT-2007.7.1 ICT and ageing
  - Increased personal independence

## Scale

- Duration: 3 years
- Budget: ~ €3million (small & medium scale)
- Consortium: 5-8 partners

- **Additional expertise required:**
  - Expert in multi-sensory data-fusion information gathering and interpretation;
  - Expert in advanced motion control;
  - Expert in domestic robotic system's safety and Human machine interface;
  - Expert in Psychology.
- **Contact details:**

Dr Renxi Qiu  
QiuR@cardiff.ac.uk  
+44 (0)29 2087 5915