

# Manufacturing Engineering Centre, Cardiff University, 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**
  - Rapid Prototyping Centre
  - Rapid Production of Tooling
  - PRIMACORPS
  - SARE

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

# Rapid Manufacturing of Plastic Parts by Laser Sintering

Develop new methodologies and tools to support SME's in rapid manufacturing of functional plastic parts by laser sintering and additional automated coating and finishing processes

## Objectives

- LS process - simulation, analysis, optimisation, and automation
- New powdered materials, material reuse/recycling
- Finishing, post treatments (coating, infiltration, etc.)
- Collaborative environment – end user, sales, manufacturing company
- Ultra efficient manufacturing – optimisation of the whole process chain

# Relevance to the Call

- **NMP-2007-3.4-1 Rapid manufacturing concepts for small series industrial production**  
*SME – targeted projects*

## Scale

- Duration: 3 years
- Budget: ~ €3million (small & medium scale)
- Consortium: 6-10 partners

- **Additional expertise required:**

- Plastics, composite materials
- Laser sintering
- SMEs, RPM service providers

- **Contact details:**

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