

# Summary of Linkage Infrastructure, Equipment and Facilities Proposals by State and Organisation

## Queensland

### Queensland University of Technology

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**Approved Project Title** **Ultra high vacuum scanning probe microscope facility**

2010 \$800,000.00

Primary FoR 1007 NANOTECHNOLOGY

#### **Partner/Collaborating Organisation(s)**

Griffith University, The Flinders University of South Australia, The University of Queensland, Universita' degli Studi di Roma Tor Vergata

**Administering Organisation** Queensland University of Technology

#### **Project Summary**

Ultra high-vacuum scanning tunneling microscopy underpins advances in the understanding of novel materials for electronics, engineering and medical applications, including thin-films, nanostructures, advanced semiconductors, nanostructured (organic or inorganic) conductors, and nanoscale interfaces (heteronanostructures). It is a core technique underpinning the new Superscience agenda in Future Technologies. A number of present and future research fields will benefit from the presence of this instrument, which will enhance Australia's competitiveness in nanotechnology research and development. Training of PhD and graduate students in this area is essential to exploit the potentiality of nanotechnology for the future benefit of Australia.