



Pilbara Iron Ore Remote Operations Control Centre in Perth



Invest in the West

Mining Equipment, Technology and Services (METS)
Innovation in Western Australia

Western Australia's resources export is worth \$89 billion in value and accounted for 41 per cent of the nation's total merchandise exports in 2015.

Western Australia's world class research, development and innovation positions the State at the forefront of global mining expertise.

Perth, Western Australia – A METS Research and Development Hub

Western Australia is one of the world's greatest mineral provinces with commercial projects across 50 different minerals and nearly 1000 operating mine sites.

Driven by the needs of the mining sector, Western Australia has a global reputation for mineral exploration, production, innovation and research capabilities across more than 800 local and international companies, and the government sector.

Innovation is key to maintaining international competitiveness and ensuring the longevity of the Western Australian minerals industry. The State's capital city Perth is also a global oil and gas hub which offers unique capabilities at the intersection of mining and METS research.

Private Sector Innovation

Global mineral producers and service providers have recognised the potential and research capability of Western Australia, choosing to establish the following technology divisions/units in the State:

- **Rio Tinto** Remote Operations Centre
- **BHP** Global Technology Centres and Integrated Remote Operations Centre
- **Alcoa** Technical Delivery Group
- **BASF** Global R&D Centre for Mining Solutions
- **IBM** Natural Resources Solutions Centre for Mining
- **Outotec** Global Competence Centre for Grinding Technologies
- **Sandvik** High Productivity Centre
- **ThyssenKrupp** Industrial Solutions Facility

Publicly Funded Innovation

The role of publicly funded research is critical to Australia's global pre-eminence in resource exploration and production. The State has a collaborative scientific research community that is supported by a highly interconnected network of universities, government agencies, research organisations and leading corporations.

Western Australia's research and development activities are led by a number of research centres in the State:

- **CSIRO, the Commonwealth Scientific and Industrial Research Organisation** is Australia's national science agency and one of the largest and most diverse research agencies in the world. Its Mineral Resources Flagship, with a key base in Western Australia, works with industry and research partners to deliver new R&D solutions across the minerals value chain in exploration, mining, processing and the community.
- The **Western Australian School of Mines (WASM)** is the flagship of Curtin University's minerals research. It provides world class mining and minerals education, research and facilities, and has strong industry partnerships. Its success in R&D has resulted in the commercialisation of a number of innovations that are being used in the mining industry.
- The **University of Western Australia (UWA) Energy and Minerals Institute (EMI)** proactively partners with industry to deliver innovative solutions to industries, government and communities in remote environments. It focuses on "value creation" through research centres such as the Centre for Exploration Targeting and has expertise across the mining value chain.
- **Murdoch University's** School of Engineering and Information Technology has a strong focus on hydrometallurgy and actively explores research partnerships with other institutions.

Information current as at August 2016.

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Western Australia's Key World Class METS Research

- Australian Resource Research Centre
- Centre for Exploration Targeting
- Curtin's Department of Applied Geology and Exploration Geophysics
- CSIRO's Mineral Resources Flagship
- John de Laeter Centre for Isotope Research
- Minerals Research Institute of Western Australia
- National Resources Sciences Precinct
- UWA's Australian Centre for Geomechanics
- UWA's Centre for Safety
- UWA's Energy and Minerals Institute
- EZONE UWA, UWA's Engineering zone and remote operations research
- UWA's Centre for Microscopy and Microanalysis
- Western Australian School of Mines' Mineral Rock Mechanics Research Group



The University of Western Australia's Energy and Minerals Institute

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