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Invest in the West

Oil and Gas Innovation in Western Australia

Western Australia is home to some of the world's largest Liquefied Natural Gas (LNG) developments, with around 27 per cent of global LNG capacity under construction.

The State's growing reputation as a centrally located hub for oil and gas operations makes it an attractive centre for scientific and technological innovation in the region.

Perth, Western Australia – An Oil and Gas Research and Development Hub

Perth is a major energy city in Australia and is home to some of the largest concentration of global oil and gas companies in Australia, with over 400 international companies servicing the sector.

Investments in research and development of energy related technologies by petroleum operators and service providers underline and emphasise the State's strengths and the region's potential.

For international companies involved in innovation, an added benefit of Perth is that it is also a global mining, equipment and technology services hub offering unique capabilities at the intersection of energy research.

Private Sector Innovation

Global petroleum 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:

- **Chevron** Global Technology Centre
- **IBM** Natural Resources Solutions Centre for Petroleum
- **KPMG** Global Oil and Gas Centre of Excellence
- **GE Oil & Gas** service, maintenance and training facility
- **Shell** Centre for Floating Liquefied Natural Gas (FLNG) Learning & Research

Publicly Funded Innovation

Western Australia's renowned academic sector embraces a results-oriented collaborative approach with industry associations and operating companies to address industry challenges and develop innovative solutions.

The **Commonwealth Scientific and Industrial Research Organisation** (CSIRO), **Curtin University of Technology** (Curtin) and the **University of Western Australia** (UWA), are guiding Western Australia's research and development in the energy sector. Each organisation regularly participates in a number of cooperative research centres, hosts world class research facilities, develops new technologies and undertakes innovative research to address the challenges that come with energy operations in Western Australia and the world.

The **Australian Resources Research Centre** (ARRC) was established in November 2001. Located in Western Australia's Technology Park, ARRC is a major initiative of the Western Australian State Government, CSIRO and Curtin University, developed in conjunction and consultation with the petroleum and mining industries. It currently houses 447 staff and students and is the largest concentration of resource specialists in Australia, with a vision to become one of the world's leading centres of petroleum and minerals research.

The **Western Australian Energy Research Alliance** (WA:ERA) is an unincorporated joint venture established in 2003 by CSIRO, Curtin University and UWA. The alliance works closely with industry, including Woodside and Chevron, to solve problems in petroleum research, production optimisation, carbon management and training projects to the benefit of Australia and the global industry.

Western Australia's five universities and technical institutes also offer a range of petroleum-related courses, research projects and hands-on experience.

Information current as at September 2014

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Western Australia's Key World Class Oil and Gas Research

- Australian Resources Research Centre
- CSIRO Earth Science Resource Engineering Division
- Curtin Centre for Marine Science and Technology
- Curtin Corrosion Engineering Industry Centre
- Curtin Departments of Applied Geology and Exploration Geophysics
- Curtin Petroleum Geomechanics Group
- Curtin Unconventional Gas Research Group
- Curtin Western Australian Organic and Isotope Geochemistry Centre
- iVEC Supercomputing
- John De Laeter Centre for Isotope Research
- National Geosequestration Laboratory
- National Resource Sciences Precinct
- UWA Centre for Energy
- UWA Centre for Energy Geoscience
- UWA Centre for Microscopy and Microanalysis
- UWA Centre for Offshore Foundation Systems
- UWA Centre for Safety
- UWA Energy & Minerals Institute
- Western Australian Energy Research Alliance



Australian Resources Research Centre (ARRC)

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