

# Perth Global Technology Centre

Partners Creating Value

## Perth Global Technology Centre

The Perth Global Technology Centre (GTC) was established in 2007 as a strategic extension of Chevron's Energy Technology Company (ETC) in the Asia Pacific region to align with Chevron's long-term growth strategy.

Perth was identified as the location of the GTC due to:

- its proximity to Chevron's interests in the region,
- its source of talented regional technology experts,
- the growing reputation of the city as an excellent centrally-located core of operations for the region's oil and gas industry,
- and growth opportunities to pursue research and development alliances with universities and industry partners.

At the GTC our mission is to develop and deliver new technologies and create value for the business by providing research, development and technical support to the company's Asia Pacific and global upstream, downstream and geothermal operations.

We work closely with university and research institutions through various alliances such as the Western Australian Energy Research Alliance (WA:ERA) and Chevron's global University Partnership Program, which strengthens our collaboration on petroleum research, technology development, and education and training projects.

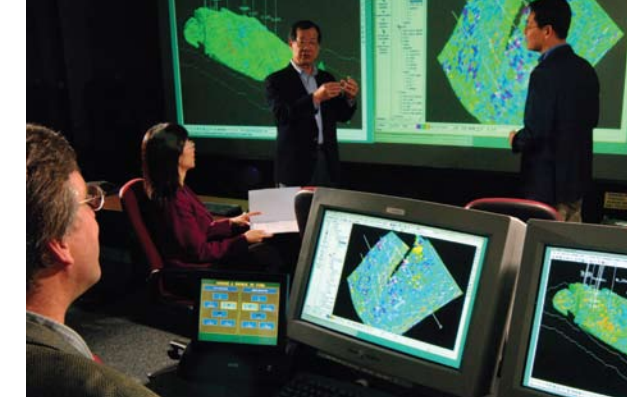
Located on the 13th level of the QV.1 building in Perth's Central Business District, we have a workforce consisting of researchers, scientists, engineers, technical experts, university graduates and support personnel to solve the technical challenges of finding and producing new energy reserves safely and economically, while protecting the environment and supporting those communities in which Chevron operates.



Through our global network and partnership capabilities we are able to provide targeted support across a wide spectrum of activities:

### Engineering Themes

- **Reservoir Simulation**
  - Next-Generation Simulator (INTERSECT)
  - Subject Matter Experts in Compositional Modelling
- **Production Engineering**
  - Design High Rate Production (200 MM/D) & CO<sub>2</sub> Sequestration Wells
  - Well Test Analysis
- **Facilities & Process Engineering**
  - LNG Facilities Design
  - "Gas to Liquids" Technologies
  - Deepwater (Flow Assurance)
  - Process & Facilities Optimisation
  - Reliability & Integrity
  - Materials & Corrosion
  - Civil & Structural
- **Health, Environment & Safety**
  - Environmental Technologies
  - Process Risk Assessment & Management
  - Fire Protection
- **Drilling & Completions**



### Geologic & Geophysical Themes

- **Regional Seismic Processing Team**
  - Depth Migration
  - Velocity Modelling
- **Reservoir Properties from Seismic**
  - AVO / Inversion
  - Amplitude processing
- **Interpretation, Modelling & Visualisation**
- **New Ventures**
  - Geochemistry / Basin Analysis
  - Fault Seal / Play Concept
  - Regional Geology
  - Structural Geology
  - Decision Analysis
- **Technical Computing**
  - High Performance Computing Infrastructure
  - Upstream Application and Information Management Support



### Further Information

For more information please visit [www.ChevronAustralia.com](http://www.ChevronAustralia.com)



Human Energy™



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# Energy Technology Company

Partners Creating Value

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## Fast Facts

### About Energy Technology Company (ETC)

- Serves all Chevron operating companies worldwide
- Over 2400 employees, more than half with advanced degrees
- Major technology centres in Texas and California, with global centres in Europe and Australia
- First in the industry to establish a fully integrated upstream/downstream technology company
- Invests aggressively to develop new technology solutions
- Provides expert technical consulting services worldwide

### Value-Creating Technologies and Support

ETC's functional-based organisation delivers value-creating technologies and competency support across a wide spectrum of activities:

- Earth Sciences
- Reservoir & Production Engineering
- Drilling & Completions
- Facilities Engineering
- Health, Environment & Safety
- Process, Analytical & Catalysis
- Technical Computing



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## Differentiating Technologies Equals Competitive Advantage

As Chevron's operating companies work worldwide to successfully secure additional supplies of oil and gas, technology continues to play a critical role in guiding us into deeper waters, more complex formations and unconventional plays.

### Mission

At Chevron's Energy Technology Company (ETC) our mission is to deliver leading-edge technology solutions and a full spectrum of services to all of Chevron's global enterprises, as well as to research and develop new ideas and tools needed for the future.

### ETC's Commitment

ETC is committed to developing those differentiating technologies that provide Chevron with a competitive advantage.

We work to boost productivity and reduce business risk. Through the innovation and the expertise of more than 2,400 researchers, scientists, engineers, technical experts and support personnel, we solve the technical challenges of finding and producing energy reserves safely and economically, while protecting the environment and supporting those communities in which we operate.

ETC personnel offer a world class consulting solution that is fit for purpose and aligned to client business needs.



## Creating Value Through Partnership

ETC works in partnership with Chevron's worldwide operations throughout the energy value chain.

ETC sets research and development priorities by working with business teams to align near-term business goals and long-term strategic growth objectives.

We also link our team's experience and research work through partnerships and alliances with leading universities, national laboratories and the industry. Because of broad access to external expertise and resources, we are able to accelerate the application of results.

### Working Safely

Wherever we work, we place an overarching priority on the safety of our employees, customers, partners, contractors and communities. To us, safety is not just a word but a philosophy and core value of how we operate our businesses. Within ETC's Health, Environment & Safety department, our team of experts also provides the capabilities and technology to ensure state-of-the-art safety and environmental performance around the world.



## Pioneering Technology Advancements

Among the exciting new technology investments now under way at ETC are:

- A technological breakthrough to convert heavy oil into valuable products
- Geostatistical modelling applications
- A simple, rugged and reliable technology to obtain wireless high bandwidth data from deep, hot and challenging wells
- Industry-leading seismic imaging and next-generation interpretation
- Enhanced oil recovery and heavy oil recovery thermal technologies
- Development of new, innovative drilling and completions systems
- Advancements in deepwater production systems and facilities designs
- Project INTERSECT: the development of a next-generation reservoir simulator

We are also working in partnership with Chevron's Technology Ventures to evaluate renewable energy technologies such as biofuels and hydrogen.