

## Pawsey Supercomputing Centre

The Pawsey Supercomputing Centre Project (Pawsey) will build a High Performance Computing (HPC) system capable of performing over 1 petaflop - or over 1 quadrillion operations every second. The project is also constructing a state of the art data centre to house the HPC system.

Pawsey's HPC system will be an internationally significant resource which supports Australian computational research. It will provide prioritised support for research in geosciences and radio astronomy, including the processing of the data generated by the Australian Square Kilometre Array Pathfinder (ASKAP) radio telescope.

### Key facts

- State: Australia Wide
- Lead institute: CSIRO as centre agent for iVEC
- Project status: In progress
- Australian Government contribution:
  - \$80 million under the Super Science Initiative
  - \$4.53 million under National Collaborative Research Infrastructure Strategy 2013 program

### Project deliverables

The Pawsey project will scope, procure and install a petascale HPC system, and construct a data centre to house it at the Australian Resources Research Centre in Perth. The project will also plan for the operation and use of this resource by Australian researchers.

In addition, the project will scope, procure and install two HPC systems which each have around one tenth the processing power of the petascale HPC system. Known as 'pathfinders', these HPC systems will be installed at Murdoch University and the University of Western Australia. Using them will allow researchers to scale-up their research computations to make best use of the petascale system.

Pawsey is managed by [iVEC](#).

High Performance Computing has become increasingly important for Australian research. HPC resources provide researchers with a platform for doing ever cheaper, faster and more accurate digital experiments and modelling, and for undertaking digital experiments and modelling which could not be done in any other way.

### Access

Time on Pawsey's resources will be allocated to Australian researchers through one of three paths:

- 'Partner Access' to researchers from any of the project partners
- 'Priority Access' to researchers in the fields of radio astronomy and geosciences
- 'Open Merit Access' to researchers conducting publicly funded research, allocated competitively on the basis of merit.

## **Participating organisations**

- CSIRO (lead agency, as Centre Agent for iVEC) (Partner of iVEC)
- University of Western Australia (partner of iVEC)
- Murdoch University (partner of iVEC)
- Edith Cowan University (partner of iVEC)
- Curtin University (partner of iVEC)

## **More information**

For more information, go to the Pawsey page on the [iVEC website](#).