

Australian National Fabrication Facility (ANFF)

The ANFF enables users to process or manipulate hard materials (such as metal, semiconductors and ceramics) and soft materials (such as polymers) and transform these into structures that have application in sensors, pharmaceutical and medical devices and nano-electronics.

The technologies available at the ANFF lies in between conventional 'millimetre' scale processing technologies that use standard tooling methods, and atomic or molecular scale technologies.

Key facts

- State: QLD, NSW, SA, VIC, WA, ACT
- Lead institute: ANFF Pty Ltd
- Project status: In progress
- Australian Government contribution:
 - \$41.4 million from the National Collaborative Research Infrastructure Strategy program
 - \$50 million under the Super Science Initiative
 - \$7.31 million under the Collaborative Research Infrastructure Scheme (CRIS)
 - \$15.1 million from National Collaborative Research Infrastructure Strategy 2013 program
- Key funding partners: host institutions and the governments of QLD, NSW, SA, and VIC.

Project deliverables

The ANFF is made up of eight specialised nodes (or facilities), with direct involvement of more than 19 research institutions, including CSIRO, and supported by the Commonwealth and four state governments (NSW, QLD, VIC and SA).

The facility provides users with access to state-of-the-art fabrication facilities, including tools for:

- rapid prototyping of bio-nano devices
- deposition of metals
- testing of devices
- the generation of a variety of materials at atomic scale in presence of reactive.

Each node offers the capabilities of a complete stream from initial design to materials synthesis or preparing, patterning, manipulation or lithography steps, through to complete device fabrication, testing, proof of concept and prototyping.

The eight nodes specialise in different aspects of fabrication ranging from microfluidics, semiconductor optoelectronics and laser machining.

Access

ANFF nodes across Australia are accessible to all researchers at a low cost and on the basis of merit. Find out more about [accessing the ANFF](#).

Participating organisations

ANFF is comprised of 8 nodes across 21 institutions throughout Australia. These include:

- The University of Adelaide
- The Australian National University
- Bandwidth Foundry
- CSIRO
- Deakin University
- Flinders University
- Griffith University
- Macquarie University
- The University of Melbourne
- Monash University
- The University of Newcastle
- The University of New South Wales
- The University of Queensland
- RMIT University
- UniSA
- Swinburne University
- The University of Sydney
- University of Technology Sydney
- LA Trobe University
- The University of Western Australian
- University of Wollongong

More information

For more information, visit the [Australian National Fabrication website](#).