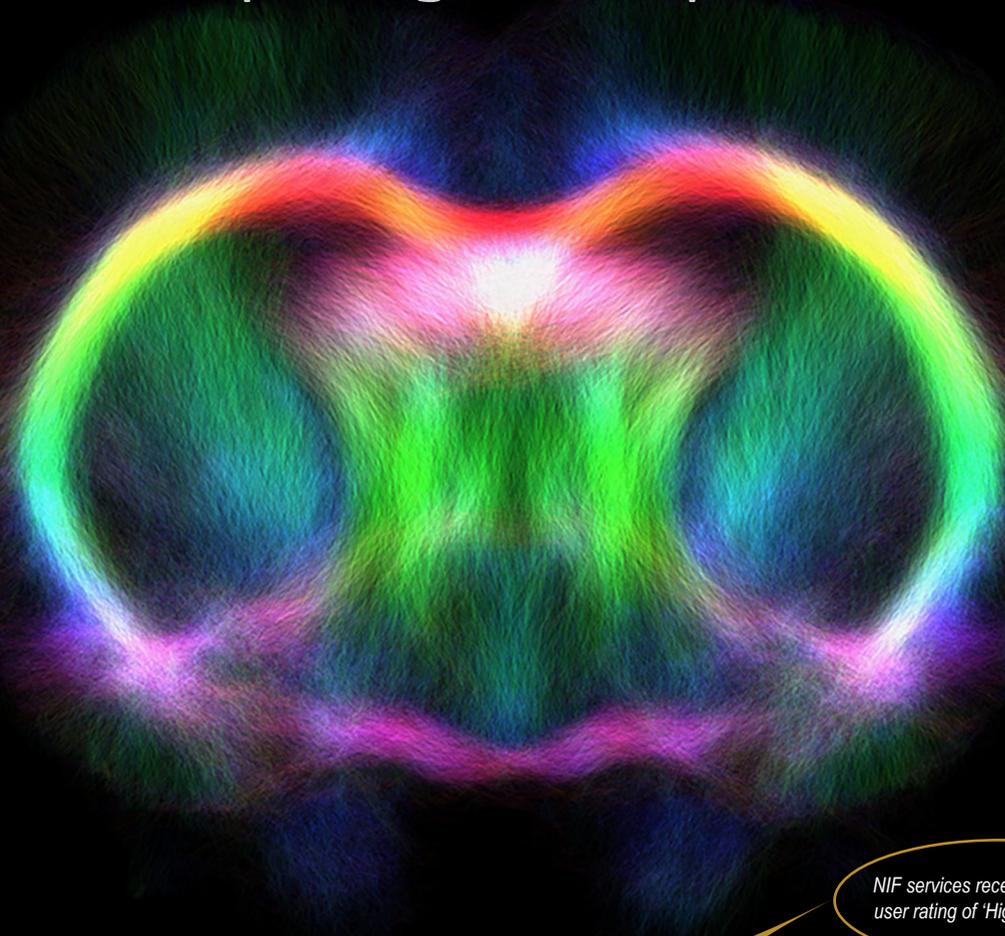


National Imaging Facility

Exploring Inner Space



The National Imaging Facility (NIF) is an Australia-wide capability of world-class imaging infrastructure.

NIF provides open access to an array of world-leading imaging capabilities to the Australian research community in three main themes:

- Molecular Imaging and Radiochemistry;
- Human Imaging; and
- Animals, Plants, and Materials Imaging.

With a range of cutting-edge imaging technologies and highly specialized expertise, NIF develops advanced imaging solutions to drive innovation.



74
in 2018: **JOBS**
CREATED



242
COLLABORATING
ORGANISATIONS



414
ACTIVE
PROJECTS



256
PEER-REVIEWED
PUBLICATIONS



>1000
USERS

NIF services received an average user rating of 'Highly Satisfactory'

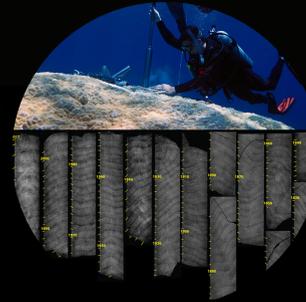
47% of users reported a significant research breakthrough using NIF facilities

Enabled by



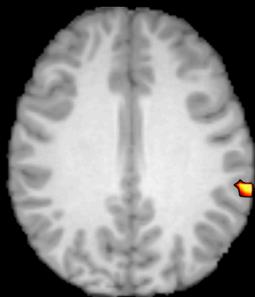
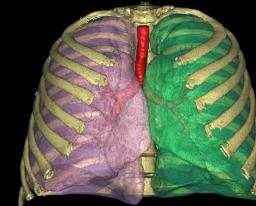
Sample projects

CT imaging facilities at the University of Western Australia are contributing to understanding how different coral species are responding to climate change. The results offer hope that corals surviving heatwaves may be able to adapt for future heatwaves.



The CT imaging facilities at the University of Melbourne were used to visualise the head of an Egyptian mummy without disturbing the preserved artefact. The data was used for a comprehensive visual reconstruction and for analysis of potential diseases in the Ancient Egyptian.

The Australian Lung Health Initiative has leveraged the technology of 4Dx, a start-up venture operating out of the South Australian Large Animal Research & Imaging Facility (LARIF) NIF Node, to secure almost \$1 million in funding from the Medical Research Future Fund. This research will allow the development of a low-dose, non-invasive paediatric lung scanner.



The Florey Institute of Neuroscience and Mental Health has leveraged the advanced imaging capability of NIF infrastructure to prepare a visionary proposal. The Australian Epilepsy Project stage two proposal will - combined with advanced genomics and cognitive assessment - provide improved diagnosis and treatment in Epilepsy.

NIF facilitates open access to a range of imaging capabilities, including:

- 7T Human MRI
- 3T Human MRI
- 9.4T preclinical MRI
- 11.7T preclinical MRI
- 14.1T preclinical MRI
- 16.4T preclinical MRI
- 3T large animal MRI
- Human MEG
- Micro-CT & x-ray
- Human PET/CT
- Preclinical PET/CT
- Preclinical PET/SPECT/CT
- Preclinical MR/PET
- Multispectral imaging
- Ultrasound imaging
- MALDI-TOF imaging
- Research cyclotron
- Radiochemistry & radiolabelling

NIF Nodes:

