

## Biotechnology @ UTS

The University of Technology, Sydney has considerable research expertise in Biotechnology. The Department of Medical and Molecular Biosciences (<http://www.science.uts.edu.au/health/index.html>) is particularly strong in Medical Biotechnology specifically gene therapy, cancer research, molecular genetics, vaccine production and medical devices. The following groups are based in this Department.

- Institute for the Biotechnology of Infectious Diseases (<http://www.science.uts.edu.au/ibid/>)
  - Expertise in the molecular biology and immunology of parasitic and bacterial pathogens.
- Key University Research Strength in Health Technologies (<http://services.eng.uts.edu.au/~htn/health.html>)
  - Interdisciplinary expertise in innovative devices and systems for health technology application, including the brain-activated devices.
- Proteomics Technology Centre of Expertise (<http://www.science.uts.edu.au/research/coe/ptce.html>)
  - Proteomics and associated biotechnologies.
- Centre for Forensic Science (<http://www.science.uts.edu.au/centres/cfs/index.html>)
  - Innovative forensic science including molecular genetic techniques and other advanced bioassays.

Much of this expertise is based on expertise in molecular science. This is supported by strengths in other area of science such as nanotechnology, applied physics and advanced engineering. Other research areas include bioreactor design, growth kinetics, enzymology and bioprocessing science.

There is also considerable expertise on Environmental Biotechnology based in the Department of Environmental Science (<http://www.science.uts.edu.au/des/index.html>). Specifically, bioremediation of polluted waters and soils, and plant biotechnology. Some specialised research groups based in this department are shown below.

- Institute for Water and Environmental Resource Management (<http://www.iwerm.uts.edu.au/>)
- Centre for Ecotoxicology (<http://www.science.uts.edu.au/centres/ecotox/>)
- National Centre for Groundwater Management (<http://www.ncgm.uts.edu.au/>)