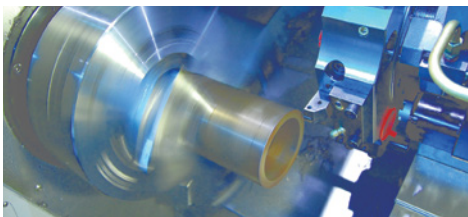


Instrumentation and Technology Development

Monash Facility for Instrumentation and Technology Development provides electronics and mechanical engineering services for the design and development of custom instrumentation and laboratory equipment to meet specialised research needs.

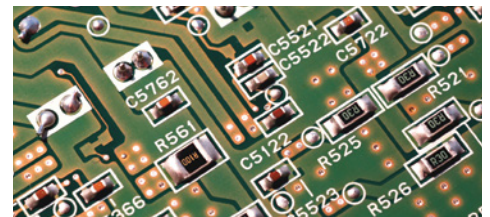
Our team of engineers and technicians are experienced in all aspects of design and construction.



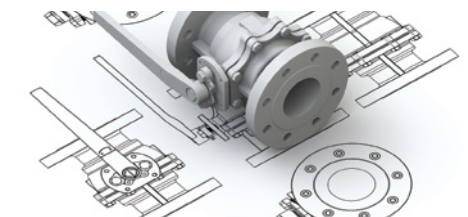
CNC Machining – Cnc-Lathe-Running



EDM Wire Cutting



Electronic Design – Printer-Circuit-Board



Computer Aided Design



Metal Fabrication



Assembly Services



Mission statement:

Machining Services

The facility has the capability to machine and manufacture components and systems in a wide range metal, wood and plastics. It is equipped with Computer Numeric Controlled (CNC) machines as well as an Electric Discharge Machine (EDM). As well as a wide range of traditional machines in its workshop.

It is capable of producing products from simple back of the envelope sketches provided by the customer. Once there is an understanding of the requirements, full CAD drawings and 3D models will be produced for the customer's review.

Electronic Services

The facility can design and develop the necessary electronic components for your research needs. Projects can be realised using sophisticated simulation software and produced with professional CAD/CAM software.

It is capable of repairing a wide range of electronic equipment using state of the art test equipment.

EDM Wire Cutting

The Monash Facility for Instrumentation and Technology Development has a Sodick AQ300L Wire Electric Discharge Machining (EDM) machine, also known as a 'wire cutter'. This machine uses a thin metal wire as an electrode to spark erode the work piece. The EDM machine uses electric current to cut conductive materials leaving a smooth surface that requires no further finishing or polishing.

This machine can be used to cut plates, make punches, tools, and dies from any conductive material, including hard metals that are too difficult to machine with other methods, such as graphite and carbide.

Metal Fabrication

The metal fabrication area is capable of producing delicate instrumentation through to large robust mechanical structures. The facility has the resources to work with aluminium, stainless/mild steel, copper, brass and most other metals. Our capability includes: TIG welding, MIG welding, Oxyacetylene welding, Silver soldering, Brazing and Guillotining.

Contact

Facility Manager

Chris Phyland

Chris has a background in digital electronics and a long association with providing technology support to research programs. Prior to joining Monash University, Chris worked at the CSIRO as an electronics engineer and managed its centralised electronics unit at Clayton. Chris holds a Bachelor of Engineering (honours) in Electrical and Computer Systems Engineering from Monash University and a Master of Science (by Research) from the University of Melbourne.

Phone: +61 (3) 9905 8684

Email: christopher.phyland@monash.edu

Website: platforms.monash.edu/instrumentation

