



# Working with us – Biosensors and diagnostic devices

Biosensors and diagnostics are becoming increasingly integral for patient healthcare. They not only aid in the detection and monitoring of disease but also play a vital role in managing overall health.

With multidisciplinary expertise and a wide range of capabilities, CSIRO offers the spectrum of research services required to support the development of these increasingly sophisticated devices. Our services can be tailored to meet your application (point-of-care, wearable, implantable), platform or phase of development.

Our state-of-the-art facilities are equipped with advanced electrochemical analysers, screen-printing and spraying facilities for electrode fabrication, and advanced imaging and characterisation instrumentation. These capabilities are strongly supported by CSIRO’s Biomedical Materials Translational Facility (BMTF), which houses a PC2 laboratory for high throughput biological testing and materials evaluation as well as an ISO7 clean room for materials synthesis, processing, fabrication and surface coating.

## Support for SMEs

CSIRO offers start-ups and small-to-medium enterprises (SMEs) some excellent opportunities to work with us through facilitated R&D programs, such as incubators, accelerators and more. We also offer matched funding support and training. We’re here to help you navigate the research ecosystem and access our world-class facilities and researchers.

## Specialised capabilities in biosensor development

DETECTION METHODS	MATRICES	SENSOR SUBSTRATE MATERIALS	ANALYTES
Chemical	Aqueous	2D	Organic (incl. DNA, RNA)
Electrochemical	Gaseous	3D	Inorganic
Optical	Biological (saliva, serum, plasma, blood, interstitial fluid)	Porous	
		Nano- and micro-based	
		Flexible or rigid	
		Metallic- and magnetic-based	



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