Flinders Medical Devices and Technologies (FMDAT) is a network of multi-disciplinary researchers, highly skilled in the development and application of a diverse range of medical technologies.

FMDAT’s collaborative approach to research allows for the development and delivery of innovative solutions and services. This makes us an ideal single site for product development and testing – taking projects from fundamental concepts right through to clinical trial.

Health Informatics is concerned with the effective use of information and discovery of knowledge in health. The area includes electronic medical records, health information retrieval, medical data mining and knowledge discovery, and ontology development and use in health domains. It is also concerned with proper security for medical data.

Proper management of medical data can:
- Provide medical practitioners with accurate and timely information
- Provide fact-based assistance in diagnosis
- Help to keep medical data secure; and
- Enable organisations to run effective and efficient hospitals and medical practices

The Health Informatics group uses techniques and tools from other areas and applies them in a medical context.

The group has been successful in developing prototype medical administrative software (such as a completed project with PowerHealth Solutions), research in medical data mining (with ASERNIP-S and the ACS) and has recently secured a research grant to create a medical data mining platform (with rL Solutions)
Why work with an FMDAT member?
- Benefit from expertise of researchers and clinicians from Flinders University, Flinders Medical Centre and the Repatriation General Hospital.
- Gain access to a variety of facilities and services.
- Tap into a network of contacts from around the world.
- Benefit from shared experience in R&D and commercialisation.
- Benefit from the credibility of University based research.

Financial benefits and opportunities for industry members
- Access to Federal Government R&D tax incentives (subject to satisfying eligibility criteria).
- Ability to leverage your R&D spend through a variety of additional grant funding bodies such as the Australian Research Council (ARC) Linkage, National Health and Medical Research Council (NHMRC), AusIndustry and others.
- Opportunity to kick-start your project through the Medical Device Partnering Program (MDPP).

Benefits to FMDAT members
- Greater engagement with both end-users and industry.
- Benefit from a unified and streamlined approach to medical device research.
- Increased relevance of research and the opportunity for new challenges.
- Stronger links to industry resulting in increased opportunities for co-applications to funding bodies.

FMDAT includes more than fifty researchers and clinicians from Flinders University, Flinders Medical Centre and the Repatriation General Hospital who collaborate in research, development, application and commercialisation of medical devices and technologies to benefit the community.

The network provides expertise in several related areas, including Assistive Technologies, Biomechanics & Implants, Health Informatics, Medical Devices & Instrumentation, Medical Signals & Imaging and Medical Simulation & Modelling.

Facilities available
- Ability to undertake pre-clinical and clinical trials
- Biomechanical materials testing laboratory
- CORe Surgical Facility
- Flinders Microscopy
- Fully equipped electronic and mechanical workshops
- Hexapod robot technology
- 3D Rapid Prototyping

_services available
- Contract research services
- Collaborations / Partnerships
- Expert advice and consultancy

Further information
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