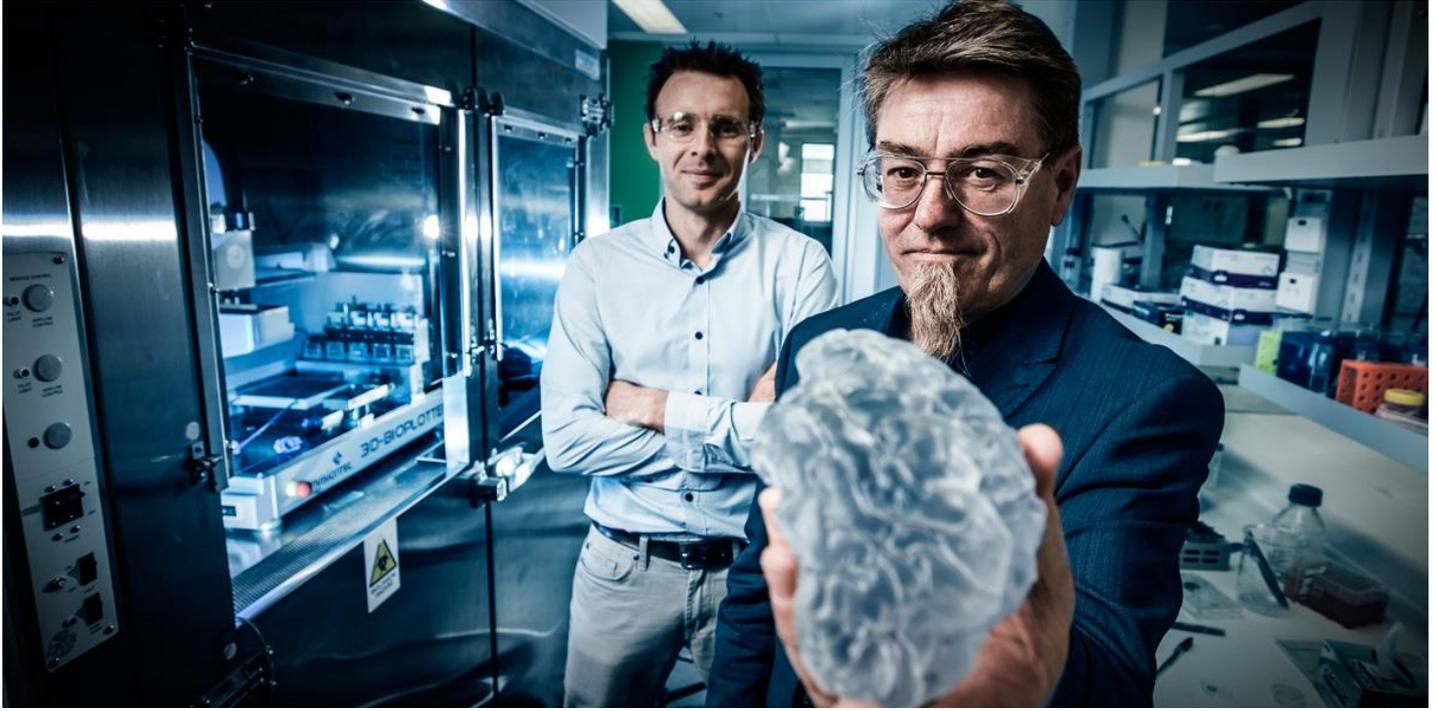




Blue BioTech Shoalhaven is an industry group that has been established to promote innovation and the capability of our member businesses in aquatic biotechnology. The Australian Research Council Centre of Excellence for Electromaterials Science (ACES) is the pre-eminent world centre for electromaterials research. ACES is led by the University of Wollongong and has an established global network of partners. ACES is working with another Blue BioTech member business to develop new methods of biomaterial extraction from seaweed.



ARC Centre of Excellence for Electromaterials Science



The pre-eminent world centre for electromaterials science research

ABOUT ACES

ACES, led by the University of Wollongong, incorporates six Australian collaborators and five international partner organisations known for their expertise in materials and device fabrication. In terms of research, their goal is to deliver integrated nanoassembly and fabrication technologies with the capacity to build truly biomimetic electrochemical systems by drawing on advances in materials, 3D printing and fibre spinning, characterisation and modelling.

WHAT WE OFFER

ACES, through its network of collaborating and partner organisations, has access to world-class facilities and capabilities that can help advance their research and industrial objectives. At the University of Wollongong, ACES is housed in the Australian Institute for Innovative Materials (AIIM), a purpose built \$52 million facility designed to transform multi-functional materials research into a commercial reality. AIIM's state-of-the-art Electron Microscopy Centre allows for quality electron and conventional microscopy while the Materials Node of the Australian National Fabrication Facility offers capabilities in the design, development and fabrication of nanostructured electronic materials and devices.

The combination of materials science and next-generation fabrication technology is creating opportunities that can only be executed through effective collaborations

OPPORTUNITY LIVES HERE

ARC Centre of Excellence for Electromaterials Science (ACES)

COMPANY HISTORY

The Federal Government funded ACES through the Australian Research Council in 2014 to turn their knowledge of electromaterials into the next generation of 'smart devices'. This is expected to have an impact on a diverse range of areas including artificial muscles, nerve cell communication systems, electronic textiles and plastic solar cells. ACES's Mission is to:

- Expand their reputation in electromaterials science internationally a
- Explore the science of nanomaterials having an electron or charge transfer functionality to prepare such nanomaterials, study and develop theories for their behaviours and exploit these new behaviours in a number of selected applications.

FUTURE PLANS & DEVELOPMENT

ACES has six priority research themes that all work towards creating and optimising new materials for use in the next generation devices for health and energy applications, in an ethical way.

The research themes include:

- Electromaterials;
- Electrofluidics and Diagnostics;
- Synthetic Energy Systems;
- Synthetic Biosystems;
- Soft Robotics; and
- Ethics, Policy and Public Engagement.

Plans for 2016 include to:

- Produce and characterise electromaterials and develop methods for 3D assembly
- Implement a Master training program in Electromaterials Science
- Produce a development plan for new venture opportunities
- Develop strategic partnerships with select research countries across the globe

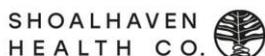


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