THE TOOLKIT

On 24 March 2015, the University of Western Sydney, Bankstown City Council and Western Sydney Future Advanced Manufacturing held an Ideas Lab – a forum which gathered UWS academic staff with stakeholders from industry, business, government and non-government organisations to exchange information with an informed audience in a supportive, ideas-driven context.

What emerged was a strong desire to consolidate all the current resources into a “toolkit” (including contacts, resources and links) so that advanced manufacturers in the region were able to effectively draw on the resources as they needed.
The University of Western Sydney

The University of Western Sydney (UWS) is one of Australia’s fastest growing universities, with world-leading research expertise, more than 43,000 students, rapidly expanding international links and applied engagement with regional businesses and communities. UWS aspires to be an institution that brings positive change in the lives of its students, act as a source of creativity and knowledge and contribute to robust, relevant and impactful outcomes for industry, individual and community development.

To this aim, the Office of the Deputy Vice-Chancellor & Vice President (Research & Development) spearheads a number of initiatives focussed on genuine and relevant engagement with industry, community, government and the sector.

Other Experts – Research Engagement, Development & Innovation

Recently established, REDI provides both external partners and internal stakeholders with a single point of access to UWS research, relationships and collaborative opportunities. REDI identifies, supports and administers opportunities towards the practical application of UWS’s research and commercial capacity. Committed to facilitating a culture of innovation and entrepreneurship with UWS and amongst its partners, REDI offers fee-for-service consultancies, collaborative research projects and the development and commercialisation of Intellectual Property.

Contact the REDI team on redi@uws.edu.au or visit www.uws.edu.au/redi/home

School of Business Experts

UWS has a number of experts who work in the areas of manufacturing, supply chain management and innovation.

At the Ideas Lab, Dr Premaratne Samaranayake represented our business experts:

Contact: P.Samaranayake@uws.edu.au
Phone: (02) 9685 9457
Profile: www.uws.edu.au/staff_profiles/uws_profiles/doctor_premaratne_samaranayake

To discuss ways to find the best UWS business expert for your needs, contact Dr Wayne Fallon at w.fallon@uws.edu.au or via phone (02) 9685 9844

UWS 3D Printing Hub

The 3D Printing Hub at UWS, has the latest rapid prototyping technology to print accurate, detailed 3D models. We also offer 3D scanning capabilities, to produce replicas of a scanned object.

Our Fused Deposition Modelling (FDM) machines allow us to offer low volume production at an affordable cost. We offer a variety of high quality 3D printing in ABS and PLA materials, in a diverse range of single or multi-colours. The variety of printers means that we can print a range of project sizes, and our expert technical team and Industrial Design and Engineering academics can be available for consultation and advice.

Contact 3dprinting@uws.edu.au for more information
Centralised Research Facilities

The University of Western Sydney has an array of specialist research facilities and a wide range of high-end scientific equipment to support research and business communities. Whether you are a researcher or an industry expert, our state-of-the-art instrumentation will help you keep on the cutting edge of research in a broad variety of fields or promote your business through these high-end analyses.

This equipment is available at UWS to both internal and external academics, students and industry. Each facility offers a range of commercial services to industry, ranging from supervised access, fee-for-service or collaborative work.

Advanced Material Characterisation Facility
The AMC Facility has a variety of instruments specialising in biological and material characterisation to image microscopic samples, identify elements & compounds and characterise chemical composition (X-ray analysis and mapping).

Biomedical Magnetic Resonance Facility
The BMR Facility contains state-of-the-art equipment for nuclear magnetic resonance diffusometry and high-resolution magnetic resonance imaging.

Confocal Bio-Imaging Facility
The CBI Facility has an advanced bio-imaging facility with confocal and multi-photon microscopes.

Mass Spectrometry Facility
The Facility offers access to advanced Mass Spectrometry, either direct sample analysis (infusion of samples in solution) or coupled to an ultra high performance liquid chromatography (nanoflow or conventional).

Next Generation Genome Sequencing Facility
The NGS Facility offers cutting edge next generation sequencing services with a range of applications in genomics, transcriptomics and epigenomics.

Secondary Ion Mass Spectrometry Facility
The SIMS facility houses the only dynamic SIMS instrument on the east coast of Australia, offering a highly-specialised surface analysis tool for high resolution profiling, surface analysis and ion imaging.

Visit www.uws.edu.au/redi/centralised_research_facilities for more information

Education Programmes

UWS offers many undergraduate, postgraduate and short courses to enable strategic decision-making for advanced manufacturers. For details visit: www.uws.edu.au/future_students

Some examples include:

Executive Master of Business Administration

Master of Business Administration
www.uws.edu.au/future-students/postgraduate/postgraduate_courses/business_courses/mba

Graduate Certificate in Business
www.uws.edu.au/future-students/postgraduate/postgraduate_courses/business_courses/all_postgraduate_business_courses/grad_cert_business

Master of Business Administration/
Master of Applied Finance

WSFAM BUSINESS INNOVATION PROGRAM

The Western Sydney Future Advanced Manufacturing (WSFAM) Business Innovation Program is an initiative of the University of Western Sydney in partnership with Western Sydney Business Connection, funded by AusIndustry.

The WSFAM Business Innovation Program is a targeted and highly practical initiative designed to deliver low cost and flexible advisory services designed to support small businesses engaged in manufacturing in Greater Western Sydney to be; sustained, reinvigorated and enhanced. The program is being delivered through a combination of interactive workshops with industry experts, online learning modules and mentoring with business advisors to develop a unique business plan.

Workshop topics:
1. Strategy & Leadership
2. Management Capability
3. Innovation Capability
4. Market Diversification
5. Technology Diffusion
6. Workforce Skills
7. Continuous Cost Reduction

The program will increase participant’s productivity, growth and sustainability through implementation of “end to end” value chain strategies that focus on a range of identified key success factors for advanced manufacturing businesses within the current highly competitive international market.

For more information, visit wsfam.com.au or contact info@smartbizuws.com.au
Bankstown City Council, particularly through its Bankstown Business Advisory Service (BBAS), plays a significant role in supporting local manufacturers by:

• enhancing the Bankstown “brand”;
• building management capabilities;
• boosting competitiveness through innovation;
• creating local market opportunities;
• encouraging export development;
• attracting and facilitating investment;
• strengthening our workforce;
• improving eco-efficiency;
• planning for growth; and
• securing major and special events.

Training & Facilities

The BBAS focuses on building the capabilities of local businesses through a combination of networking events, industry forums, workshops, one-on-one business advisory sessions, and group mentoring.

The BBAS also offers quality, affordable and accessible meeting room facilities within Bankstown Civic Tower, a landmark building in the heart of the Bankstown CBD. These facilities are available for use by BBAS members and other external clients wishing to hold one-on-one meetings or small (up to 20 person) workshops, briefings and events.

In addition, the BBAS can arrange use of larger facilities in the state-of-the-art Bankstown Library & Knowledge Centre, at community rates for key stakeholders.

Potential initiatives

The BBAS has strong partnerships with a range of government and industry stakeholders, including NSW Dept of Premier & Cabinet, NSW Trade & Investment, AusIndustry, Austrade, the University of Western Sydney, TAFE South-Western Sydney Institute, the NSW Business Chamber, Business Enterprise

The BBAS is working on a range of potential initiatives with such partners, including a manufacturing industry pilot project under the Sydney Metropolitan Industry Agglomeration Plan. This project has identified around 130 actions to support the growth of manufacturing agglomerations (or clusters) in Southern and South-West Sydney; it is currently developing a framework for prioritising these actions, based on three pillars:

- securing new sources of demand;
- strengthening industry skills and capabilities; and
- developing best practice infrastructure, planning and regulation.

Several “headline” projects will be announced shortly.

Future events and workshops

The BBAS will be conducting or supporting the following events and workshops over coming months, to assist local manufacturers and other businesses:

- 16 June: Bankstown Jobs & Skills Expo
- 15 July: Introductory tendering workshop
- 12 August: 2015 Bankstown Local Business Awards
- 2 September: Business networking event
- 16 September: Introductory tendering workshop
- 14 October: Bankstown B2B Expo
- 18 November: Introductory tendering workshop
- 1 December: Business networking event

Visit www.bankstownbusiness.com.au for more information

Department of Premier and Cabinet
Sydney Metropolitan Industry Agglomeration Project

The NSW Department of Premier and Cabinet commenced the SMIAP in September 2014, completing the survey phase in January 2015. With 60 manufacturing companies interviewed in 11 local government areas, the results indicated that access to skilled labour and increased global competition were the main impediments to growth. Companies indicated the need for business support programs.

The project team are now working with Commonwealth, State and Local Government to refine the actions that have arisen as a result of the survey work and consultations. In consultation with The University of Western Sydney, they are working to further analyse the survey data and identify further work. A draft report is in development, with preliminary investigations around release of the project.

Should you wish to feed into this project, contact:

**Amanda Neirinckx**
Assistant Regional Coordinator, Central and Sydney East
NSW Department of Premier and Cabinet
02 9228 3643, amanda.neirinckx@dpc.nsw.gov.au
PARTNER CONTACTS

The University of Western Sydney
Angelique Harslett
Senior Project Development Manager
P: 02 9678 7073
E: Angelique.Harslett@uws.edu.au

Western Sydney Future Advanced Manufacturing
P: 02 9685 9471
E: info@smallbizuws.com.au
W: wsfam.com.au

Bankstown City Council
Paul Judge
Coordinator, Economic Development
P: 02 9707 9261, 0417 693 215
E: paul.judge@bankstown.nsw.gov.au

Department of Premier and Cabinet
Amanda Neirinckx
Assistant Regional Coordinator, Central and Sydney East
NSW Department of Premier and Cabinet
02 9228 3643 amanda.neirinckx@dpc.nsw.gov.au

ABOUT THE UWS IDEAS LABS

Ideas Labs gather together UWS academic staff with stakeholders from industry, business, government and non-government organisations to exchange information with an informed audience in a supportive, ideas-driven context.

For more information and other upcoming labs, visit www.uws.edu.au/ideaslab

UWS is committed to research that changes our region, the nation and the world. We do research with impact: industry-led, interdisciplinary and solution-focused. UWS has the talent, facilities and resources; but the Ideas Labs are about taking these resources out to our region - listening to the people who know the right questions, people who face these questions every day.

WHAT HAPPENS NEXT?

The University draws on the forum discussion to identify research opportunities to find solutions that have real impact on our region’s businesses, industries and communities.

This Toolkit is the output from the 23 March 2015 Advanced Manufacturing Ideas Lab.