

CAPABILITY STATEMENT

The University of Wollongong in China



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

The University of Wollongong is one of Australia's leading universities and has a strong, established relationship with China, including collaborations with prestigious universities, national academies and major corporations.

The University of Wollongong highly values its relationships with China, through our students and alumni, to academic staff of Chinese background, to formal teaching and research partnerships. The University of Wollongong attracts significant numbers of Chinese students to our Wollongong Campus, where China is the largest source country of international students. Over 15,000 University of Wollongong alumni reside and work in greater China, forging strong partnerships with government and industry leaders.

Our close ties with China are demonstrated through our research and teaching collaborations with key strategic partners, including government institutions, universities and corporations. Our strong research and teaching presence in China has been recognised with the University of Wollongong being awarded a Business Excellence Award for Education and Training in the 2015 Australia-China Business Awards.

Cutting edge commercial research with industry

The University of Wollongong has forged a partnership since 2007 with the Chinese Government-owned Baosteel, China's largest steel company. The University of Wollongong was the first foreign university to undertake research and development activities with Baosteel. The University is also one of the four Australian partner universities of the \$25 million Baosteel-Australia Joint Research Centre.

The University of Wollongong participates in commercial research projects in not only Baosteel's traditional business of steel manufacturing and processes, but also in new materials for energy storage and efficiency improvement. These projects directly contribute to Baosteel's business operations, including improvement in stainless steel quality and new rolling technology.

The University of Wollongong fosters key industry partnerships in the areas where we are strong. This ensures that companies are working with world leading research teams for cutting-edge technology. These include a long-standing research collaboration with one of China's leading battery companies, DLG, in electric vehicle power systems, and a partnership with Ningbo Jan Sen to develop next generation magnetic resonance imaging (MRIs) devices using advanced superconductor technology.

The University of Wollongong is also attracting major Chinese corporations to the Illawarra with Chinese-based global IT services provider Pactera opening an office at the University's Innovation Campus which will employ around 100 staff locally.

Training programs with industry and government

The University of Wollongong has key research and teaching collaborations with Hong Kong's Mass Transit Rail (MTR) Authority, one of the world's leading rail authorities moving around 4 million people per day. The University of Wollongong has been delivering training courses and a customised Master's program in Asset Management to senior managers at Hong Kong's MTR Authority for over 10 years.

The University of Wollongong has also been providing training to Beijing Government officials (from the Shunyi District) since 2010, with around 20 senior officials coming to Australia each year for Graduate Certificate of Management courses in Public Administration and Business Administration. This training program has been highly valued by the Beijing Municipal Government, and broadened connections and links between the two governments.

The University has also recently signed an MOU with China's largest Information and Communications Technology (ICT) solution provider, Huawei, to jointly deliver a training course called Huawei Authorised Information and Network Academy Program (HAINA) in Wollongong. The program will equip local technical and vocational training (TAFE) and university students with the latest ICT technology.

High impact research collaborations with the national academies

The University of Wollongong has enjoyed a decade long association with China's highest academic institution, the Chinese Academy of Sciences (CAS). The relationship has given the University of Wollongong a very strategic profile with the highest echelons of government in China and led to a number of important partnerships between the University of Wollongong and Chinese Government organisations.

This partnership has produced around 250 joint publications, including a large proportion of those in high impact journals with high citation rates. The research collaborations are focused in areas that are priorities of both nations, including energy, the environment, materials and electronics, in the form of academic and student exchanges and joint PhD programs.



Mutually beneficial partnership with leading universities

China's leading engineering research university, Beihang University (BUAA) is a strategic international partner of the University of Wollongong. This partnership enables the two universities to collaborate on challenges with the rapid transformation of global manufacturing and the development of environmentally friendly technologies.

A formal partnership with Beihang University was established in 2009 with a PhD scholarship program jointly sponsored by the University of Wollongong and the Chinese Scholarship Council (CSC). The collaboration developed quickly to broader areas including frequent student and staff exchange.

In 2014 a Joint Research Centre was established in the area of Advanced Material Science and Technology with research collaborations achieving excellent results – around 30 joint publications, four symposiums and six staff exchanges.

Rich experience in joint teaching program

The University of Wollongong has been delivering joint teaching programs for 12 years with Zhengzhou University (ZZU), a leading comprehensive university in Henan Province. The teaching model has been identified by the Ministry of Education in China as one of the most innovative models of collaboration with international universities. More than 2,000 students have graduated from the programs, with 270 students articulating into the University of Wollongong for further studies at the bachelor, master and PhD level. All graduates are highly prized by industry in China with both strong specialty knowledge and broader soft skills.

Beijing Jiaotong University and the University of Wollongong have jointly delivered a high quality program in the Bachelor of Engineering in Mechanical Engineering since 2012. The program is recognized by the Ministry of Education in China. Currently more than 200 students are studying in the program, some of whom will complete part of the study at the University of Wollongong. The partnership is also enriched by student exchange programs and visiting professors from BJTU.

Student engagement – solar decathlon

Students from different disciplines of the University of Wollongong teamed up with TAFE Illawarra to enter 'Team UOW' in the Solar Decathlon China 2013. The first team from Australia to gain entry into the Solar Decathlon. Team UOW was awarded first place overall in the competition, ahead of 19 other teams from around the globe.

The team demonstrated how to retrofit an existing older style home to make it energy efficient and comfortable by emphasising water efficiency, solar energy harvesting, passive design and advanced ventilation systems to create a net-zero and innovative home. Students had a great experience in interacting with students from other countries including China, and gained a better understanding of the global issue of sustainable development.

Key teaching and research collaborations



BEIJING:

- Beihang University
- Beijing Jiaotong University (BJTU)
- China University of Mining and Technology
- China University of Petroleum
- Chinese Academy of Sciences
- Chinese Academy of Social Science
- Peking University
- University of Science and Technology

GUANGZHOU:

- Sun Yat-sen University

HEFEI:

- University of Science and Technology China

QINGDAO:

- Oceans University of China

SHANGHAI:

- Shanghai Jiaotong University
- Shanghai International Studies University

SHENYANG:

- Northeastern University

TIANJIN:

- Tianjin Polytechnic University
- Tianjin University

WUHAN:

- Huazhong University of Science and Technology
- Wuhan University
- Central China Normal University

XI'AN:

- Xidian University
- Xi'an Jiaotong University

XUZHOU:

- China University of Mining and Technology

ZHENGZHOU:

- Zhengzhou University (ZZU)

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