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# Tongji University

In the 110 years since its founding in Shanghai as a German-style medical school, Tongji University has developed into a comprehensive research-oriented university with a formidable reputation in China and internationally. In 2013, it set out a formal goal to become a research-oriented world-class university with a strong focus on sustainability.

Sustainability permeates the research and education programmes of Tongji. With a remit of fostering creativity and excellence in young people, Tongji University has integrated knowledge and capability in its undergraduate and graduate education. It strives to make its students leaders of sustainable development, equipped with a strong knowledge base, hands-on skills, a mindset for innovation, a global perspective and a sense of social responsibility. Many of its graduates are already well-known scientists, educators, engineers, medical doctors, statesmen and entrepreneurs, including more than 140 members of the Chinese Academy of Engineering and the Chinese Academy of Sciences.

Home to the world's largest multi-function vibration test centre and the first urban rail transportation comprehensive test system and seafloor observation research base in China, Tongji University has taken charge of a series of key national science and technology projects and established many major research platforms. Its significant research achievements include key technologies for long-span bridges, intelligent transportation systems for urban areas, technologies for anti-seismic structures, urban wastewater control, development of new energy vehicles, intelligent greenhouse control systems, spatial information

## Thriving with the country for 110 years, and benefiting the society with science and education

technologies for remote sensing, ocean drilling and breakthroughs in molecular genetics, along with other medical and life science research achievements.

With a focus on the application of basic research, Tongji University's research results are widely applied, contributing to national infrastructure and transportation construction, earthquake and natural disaster prevention, environmental protection and other social developments. The university is also keen to explore new approaches for social services and has created a new model for partnership by collaborating with the local government to promote the construction of a knowledge economic zone

around the Tongji campus.

Tongji University is also enhancing its international collaboration. Built on its historic ties with Germany, its international network has spread across Europe and expanded to North America, Asia and Africa, with the establishment of 10 joint platforms for international collaboration, partnership agreements with more than 200 universities worldwide and multiple joint research centres with multinational companies, such as Siemens, Bayer and IBM. It is a global leader in worldwide university alliances for green campus and sustainable development and is the first Asia-Pacific university receiving the International Sustainable Campus Excellence Award.

With a strong faculty team and talented students, Tongji University has found a way to develop its own characteristics. Guided by the novel ideas of innovation and open-mindedness, it is living up to its commitment to sustainable education and is making big strides towards greater goals. ■