

Master's in Mechanical Engineering Intelligent Manufacturing

As the sole branch campus of Tsinghua University, the Shenzhen International Graduate School (SIGS) serves as Tsinghua's scientific research and graduate education platform in southern China. It is committed to continuing Tsinghua's academic legacy and promoting scientific innovation. Launched on 29 March 2019, Tsinghua SIGS is a collaboration between Tsinghua University and the Shenzhen Municipal Government that builds on the strengths and experiences of the Graduate School at Shenzhen (GSST) and the Tsinghua-Berkeley Shenzhen Institute (TBSI). It aims to bring together world-class faculty and students, tackle global challenges through cutting edge research and international collaboration, and nurture the next generation of global leaders by creating an International, Borderless, and Entrepreneurial learning environment.

The Intelligent Manufacturing degree program is a pilot project of Tsinghua University to deepen the comprehensive reform of professional degree postgraduate education, and is led by the Division of Advanced Manufacturing at Tsinghua SIGS. The program is also associated with the double degree program between Tsinghua University and RWTH Aachen University, Germany.

The Mechanical Engineering (Intelligent Manufacturing) master's program is open to undergraduates with science and engineering majors who have a strong interest in mechanical engineering. The research directions of this program include intelligent manufacturing and precision machining technology (precision and ultra-precision machining, intelligent monitoring, intelligent design, battery management, green manufacturing, surface engineering, etc.), bio-manufacturing technology (advanced medical/biological equipment, intelligent devices, organ chips, etc.) and other related fields.

The program has excellent faculty and scientific research conditions. There are six teachers with education or research background in famous universities. In recent years, teachers have undertaken dozens of projects, such as National Science and Technology Major Project, National Key R&D Program of China, National Natural Science Foundation of China, Fundamental Research Program of Shenzhen, and the projects entrusted by enterprises and institutions.

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