

## **Master's in Electronic Information Big Data Engineering**

Tsinghua Shenzhen International Graduate School (Tsinghua SIGS) is a public graduate education institution jointly established by Tsinghua University and Shenzhen Municipal Government to further higher education reform and to promote the development of the Greater Bay Area. It is committed to building a world-class graduate school, a first-class talent training base serving the society and leading development, an international innovation research center integrating disciplines, and a model of industry-university-research cooperation and internationalized school running.

The Master of Electronic Information (Big Data Engineering) Program aims to train talents with strong scientific research and industrial application capabilities who are internationally competitive. Students will have a solid basis of theory and broad professional knowledge in big data acquisition, storage, calculation, management, analysis and application. In the past, graduates have been employed by leading enterprises in artificial intelligence, telecommunications and information, finance and other industries. A number of outstanding students have received admission from overseas first-class universities for further study.

The program started recruiting students since 2014. At present, it has formed a complete curriculum system and a multi-dimensional talent training model. It has established cooperative relations with a number of internationally renowned universities. Students have the opportunity to exchange and apply for joint training.

Four of our data science courses are available online as MOOC courses, attracting more than 100,000 students over the years. We have also established joint graduate training bases with famous enterprises such as Tencent, SenseTime and Huawei, providing strong support for students to carry out high-level professional practice.

### **Achievements**

Students of the program have published papers in top academic conferences such as ICML, ICDE, IJCAI, AAAI, ACL and other authoritative journals such as IEEE TPAMI, IEEE TIP, TNNLS. They have won many honors such as Best Paper, Excellent Master's degree paper of Tsinghua University and received many awards in domestic and international data mining competitions.

In terms of scientific research achievements, our faculties have won awards such as the National Technological Invention Award, the National Science and Technology Progress Award, the Natural Science Award of the Ministry of

Education, the Guangdong Provincial Science and Technology Award, and the Shenzhen Municipal Science and Technology Progress Award.

### **Objectives**

Students will familiarize themselves with compulsory mathematical tools for data science, the use and development of mainstream programming languages, and big data platforms. They will gain a deep understanding of the principles and ideas of core algorithms in the field of data science, and carry out relevant scientific research work and training.

### **Faculty**

The program covers disciplines such as automation science and technologies, computer science and electronics, with excellent faculty and scientific research conditions. Most of our full-time faculty have learning and working experience at well-known universities overseas, and also possess experience in high-level national scientific projects.

### **Contacts**

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