

The School of Microelectronics is built upon the “Semiconductor Physics and Device” discipline established by Xi’an Jiaotong University in 1958. It is one of the first institutes for semiconductor technology research and talent development in China. In 1997, this discipline was merged with “Electronic Materials and Devices” into a new “Microelectronics and Solid State Electronics” discipline, subsequently became a state key discipline, and supported by the "211 Project" and "985 Project", eligible to issue Master/Doctorate degree and offer Post-doctoral programs. In 2004, it was approved by the Ministry of Education as a "National Base of IC Talents Training" development unit. In 2007, in order to meet the pressing needs of the growth and expansion of China’s IC industry and microelectronics professionals, the Department of Microelectronics was founded. In July 2015, it is approved to prepare to establish “Emblematic School of Microelectronics”, which subsequently become “School of Microelectronics” in December 2015 approved by Xi’an Jiaotong University.

Backed by the School of Electronics and Information Engineering, the School of Microelectronics has long been involved in education and research of microelectronics, and has carried out extensive cooperation and exchanges with domestic/international universities, research institutions and enterprises. It has undertaken a large number of national, provincial/ministerial and cross-disciplinary research projects, with significant achievements in education and research. As a result, it has won awards such as the “Science and Technology Progress Award” from Ministry of Electronics Industry, “Science and Technology Progress Award” from National Education Commission, “Science and Technology Progress Award of Shaanxi Province” and many others. In conclusion, the school has made tremendous contributions to the talents development and technological progression of China's microelectronics industry. Many of the School Alumni have become leaders and core forces in China’s IC industry, establishing high reputation both domestically and internationally.

The School of Microelectronics has 28 faculty members and laboratory technicians, includes 9 professors, 9 associate professors and 11 doctoral supervisors. The teachers team comprises of a Fellow of “Chinese Academy of Engineering”, 2

national “Thousand Talents Plan” professors, a “Changjiang Scholar” professor and a number of leading experts from academia and industry as adjunct professors. The school has a provincial key scientific and technological innovation team in the field of Analog/RF IC design and application of satellite navigation, and is equipped with world-class IC software and hardware design platform as well as superb devices and technology experiment platform.

The main research fields of the school are Analog and Mixed-signal IC design, RF IC design, Digital system testing and design for testability, new semiconductor materials and devices, nano-electronic materials and devices, wide bandgap semiconductor materials and devices, micro and nano biochips. In recent years, members from the school have published many academic papers in top international journals such as IEEE TCAS-I, IEEE TPE, IEEE EDL, APL, etc.; they also have obtained more than 50 patents, edited, authored and translated more than 10 textbooks, which altogether enhance the strength of school.

The School of Microelectronics has invested considerably through the "211 Project" and "985 Project" aligned with the university, to build a microelectronics laboratory and a VLSI design, education and development laboratory, and has established a world-class environment for cultivating microelectronics talents, and providing a strong foundation for talents development and scientific research. In the school, Bachelor major is “Microelectronics Science and Engineering”, Master major is “Microelectronics and Solid-State Electronics”, and the Doctorate is cultivated within the first level discipline of “Electronics Science and Technology”.