

## UNNC – SIAT, CAS Doctoral Training Partnership

### Available research areas

1. Biomedical Engineering
2. Composite
3. Electrical and Electronic Engineering
4. Machines and Control
5. Advanced and Intelligent Manufacturing
6. Artificial Intelligence and Optimisation
7. Big Data Analysis and Information System
8. Advanced Energy and Environmental Materials

### Potential Supervisors

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## **Introduction to Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences**

The Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences (tentative name, hereinafter referred to as “SIAT”) is co-founded by the Chinese Academy of Sciences (CAS) and Shenzhen Municipal Government, relying on the basis of Shenzhen Institutes of Advanced Technology, and established in the year of 2020. Aiming at the innovation and development of Guangdong-Hong Kong-Macao Greater Bay Area and facing the future industrial and talent demands, it is dedicated to build a science and technology based, world-class research university. SIAT will establish a talent training system of “three in one” in which colleges, schools and research institutes deeply infiltrates with each other.

There will be six schools within SIAT: School of Life and Health Sciences, School of Computer Science and Control Engineering, School of Material Science and Engineering, School of Pharmacy and Biomedicine, School of Biomedical Engineering, and School of Engineering Biology. They are established on the basis of the eight affiliated research institutes: Shenzhen Institute of Advanced Integration Technology (SIAIT), Institute of Biomedical and Health Engineering (IBHE), Institute of Advanced Computing and Digital Engineering (IACDE), Institute of Biomedicine and Biotechnology (IBB), Guangzhou Institute of Advanced Technology (GIAT), Brain Cognition and Brain Disease Institute (BCBDI), Institute of Synthetic Biology, and Institute of Advanced Electronic Materials (IAEM).

SIAT is home to 9 national innovation labs, 33 provincial-level key labs and platforms, and 63 municipal-level key labs and platforms. A total of 11,016 papers have been published, including 56 CNS papers, and the WFC index in 2019 is 24.54. A total of 9,605 patents have been applied, among which 3,990 have been authorized, including 1,116 PCT patents; in 2019 alone, 1,516 new patents have been applied and 366 are PCT patents, ranking first among all universities in China. SIAT also makes efforts to the scientific and technological transformation and has incubated 1,025 companies (293 shareholding) in the fields of emerging industries such as low-cost healthcare, service robots, electric vehicles, cloud computing, digital cities, nano-medicine, new energy and new materials.

SIAT possesses 10 PhD programs and 9 master programs, and have trained over 1,500 graduate students who are highly recognised by the industry and academia. SIAT has built an international teaching team with 408 graduate supervisors, including 40 academicians (6 full-time and 34 part-time) and 3 Chang Jiang Scholars. For the list of supervisors and their research areas, please visit [Supervisors----Shenzhen Institutes of Advanced Technology \(cas.cn\)](#).