



廣東工業大學
GUANGDONG UNIVERSITY OF TECHNOLOGY



学院网站



学院微信公众号

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信息工程学院
SCHOOL OF INFORMATION ENGINEERING



总体概况

广东工业大学坐落于大湾区核心城市广州，是广东省属重点大学、广东省高水平大学重点建设高校。信息工程学院于1981年开办本科专业，2000年成立学院。学院位于大学城校区工学一号馆，建筑面积6522平方米；设有通信系、电子系、应电系、先进光子技术研究院和实验教学中心；现有专任教师95人，其中教授25人、副教授32人，博士生导师14人、硕士生导师54人，国家级高层次人才计划和重大科技项目入选者7人。在校学生2959人，其中本科生2414人，硕士生513人，博士生32人，就业率达96%以上。设有4个本科专业，其中信息工程、通信工程获批国家级一流本科专业建设点，并通过了中国工程教育专业认证；电子信息工程专业获批广东省一流本科专业建设点；拥有“信息与通信工程”一级学科博士学位授权点，通信工程进入2020软科世界一流学科排名百强。

OVERVIEW OF THE SCHOOL

Guangdong University of Technology (GDUT) is located in Guangzhou, the core city of the Greater Bay Area. GDUT is a Key and High-level Construction University of Guangdong Province. The School of Information Engineering began to run undergraduate majors in 1981, and established the School of Information Engineering in 2000. The school is located in No. 1 Engineering Building of the Higher Education Mega Center Campus, with the building area of 6522 square meters. At present, the school consists of 3 departments, i.e., Departments of Communication Engineering, Department of Electronic Information, Department of Application Electronics; as well as the Provincial Key Laboratory of Information Photonics Technology and 1 experimental teaching center. There are 95 full-time faculty members, including 25 professors, 32 associate professors, 14 doctoral supervisors, 54 master supervisors, and 7 holders of national high-level talent plans and major science and technology projects. There are 2,959 full-time students, including 2,414 undergraduates, 513 master candidates, and 32 PhD candidates, and the average annual employment rate of the graduates exceeds 96%. There are 4 undergraduate majors in the school. Among them, Communication Engineering and Information Engineering are the "National First-class Undergraduate Major Construction Station", and are certified with "National Engineering Education Professional Certification"; Electronic Information is the "Guangdong Provincial Famous and Featured Major". The school has a first-level discipline doctoral degree authorization station of "Information and Communication Engineering", and Communication Engineering has entered the top 100 subjects in the 2020 ShanghaiRanking's Global Ranking of Academic Subjects.



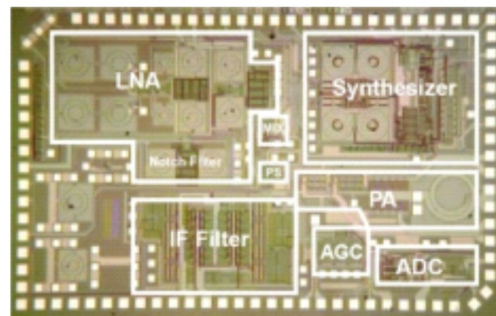
学科简介

- “信息与通信工程”软科全国第20名（前11%） 2019/2020
- “信息与通信工程（即通信工程）”软科全球51-75名 2021
- “信息与通信工程”一级学科博士点（全省共4所高校） 2018
- “信息获取与控制”二级学科博士点 2012
- “信号与信息处理”广东省二级重点学科 2012
- “信息学科”广东省“211工程”三期重点建设学科 2011



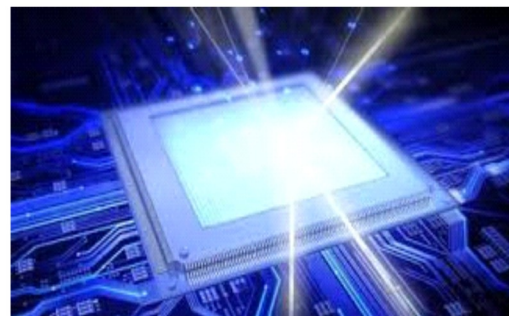
通信理论与智能信息处理

- 低时延、高可靠、低功耗通信技术；
- 人工智能信号处理；
- 携能通信与边缘计算。



宽带通信系统与核心芯片

- 射频与模拟集成电路设计；
- 宽带高效自适应的功率放大器；
- 北斗卫星多模导航芯片。

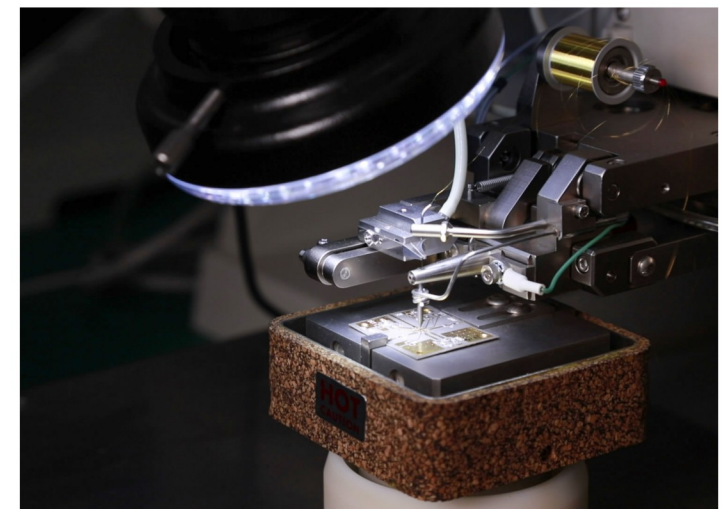
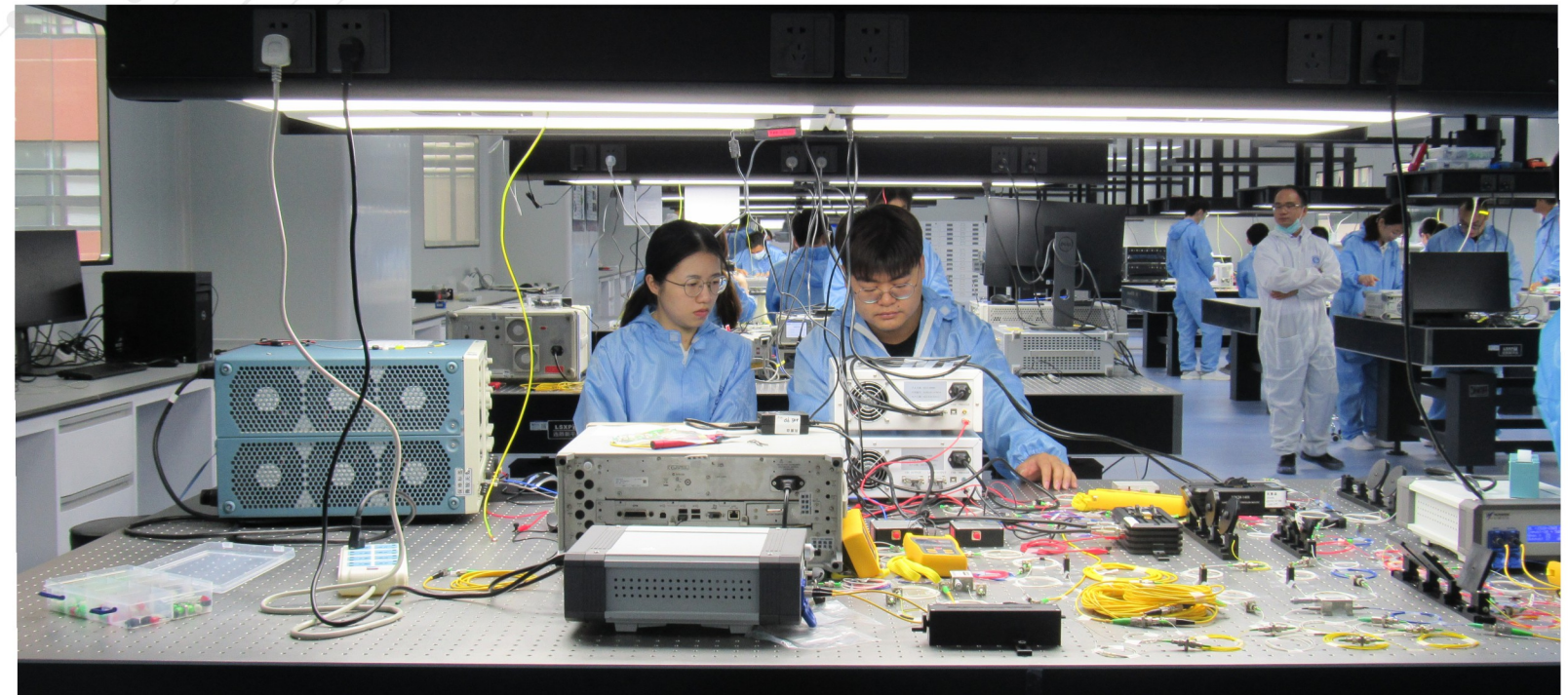


先进光子技术与光电器件

- 保密光通信；
- 光纤传感与精密测试；
- 可操控光信号处理单元等核心器件。

INTRODUCTION OF THE DEGREE PROGRAMS

- Ranked 20th (top 11%) in the Shanghairanking "China's Best Discipline Rankings": Information and Communication Engineering 2019/2020
- Ranked 51-75 in the Shanghairanking "Global Best Discipline Rankings": Information and Communication Engineering 2021
- First-level discipline doctoral degree authorization station: Information and Communication Engineering (Total 4 universities in Guangdong Province) 2018
- Second-level discipline doctoral degree authorization station: Signal Acquisition and Control 2012
- Provincial key discipline: Signal and Information Processing 2012
- Provincial "211 Project" key discipline: Information Discipline 2011



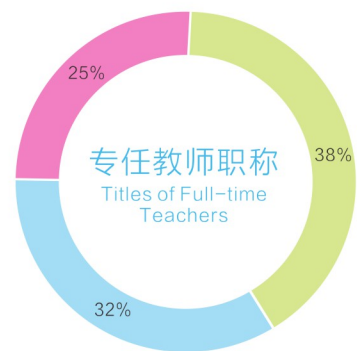


师资队伍

学院历来重视教师的专业能力和师德师风建设，教育教学质量高，师资实力雄厚。现有专任教师95人，其中教授25人、副教授32人，博士生导师14人、硕士生导师54人，国家级高层次人才计划和重大科技项目入选者7人、省级人才计划入选者9人、“珠江人才计划”创新团队2个。学院教师曾获“全国优秀教师”、“全国优秀辅导员”。学院师资队伍年轻化，45岁以下占68%；学缘结构多元化，91%的教师来源于海内外知名高校；国际化程度高，80%的教师具有海外留学和国际知名企业工作经历。

FACULTY AND STAFF

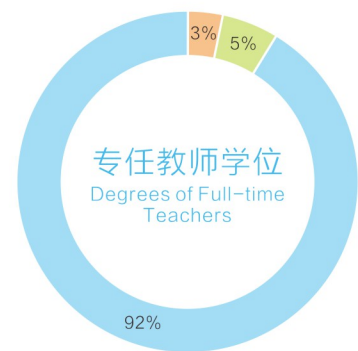
The school has always spent great attention on the professional capability of teachers and the construction of teacher's ethics and style. The quality of education and teaching is high, and teachers are highly competitive. There are 95 full-time faculty members, including 25 professors, 32 associate professors, 14 doctoral supervisors, 54 master supervisors, 7 holders for national high-level talent plans and major science and technology projects, and 9 holders of provincial talent plans. The school also has 2 "Pearl River Talent Plan" innovative research teams. The faculty members of the school have been awarded "National Excellent Teacher" and "National Excellent Counselor". The faculty of the school is young in average age, with 68% under 45 years old; and the academic structure is diversified. Moreover, 91% of the faculty members have academic background in well-known universities world-widely; the degree of internationalization is high, 80% of the faculty members have overseas study and work experience in world renowned universities and companies.



教授：25人
Professors

副教授：32人
Associate Professors

讲师：38人
Lecturers



博士学位：87人
Doctor's Degree

硕士学位：5人
Master's Degree

本科学位：3人
Bachelor's Degree

高层次人才



秦玉文

国家重点研发计划首席科学家、广东省重点实验室主任、广东工业大学“百人计划”特聘教授、先进光子技术研究院院长、博士生导师。主要从事光纤通信和光纤传感研究。



杨 军

国家级高层次人才、中央军委装备发展部军用测试仪器领域专家，广东工业大学“百人计划”特聘教授、博士生导师。主要从事高性能光纤传感技术与系统、分布式光学测试技术与仪器、高精度光学地震观测技术研究。



韩国军

国家自然科学基金重点项目负责人、广东省信息存储与编码工程技术中心主任、通信工程一流本科专业建设点负责人，信息工程学院执行院长、教授、博士生导师，长期从事差错控制编码技术、存储器件与系统、车联网技术研究。



凌永权

国家高层次人才、广东省珠江学者、IET Fellow、广东工业大学“百人计划”特聘教授、博士生导师、多本SCI期刊编委。主要从事时频分析、机器学习、非线性数字信号处理系统、人体信号处理及多媒体信号处理的研究。



王云才

享受国务院政府特殊津贴专家、中国仪器仪表学会光电技术与系统集成专业委员会副理事长、广东工业大学“百人计划”特聘教授、博士生导师。主要研究领域为硬件保密通信、密钥分发技术、微波光子学与毫米波器件等。



付松年

国家级高层次人才、国家重点研发计划首席专家、中国光学工程学会光通信与信息技术专家工作委员会委员、广东工业大学“百人计划”特聘教授、博士生导师。从事宽带光接入技术研究工作。



郭春炳

国家级海外高层次人才、广东工业大学集成电路创新研究院副院长、“百人计划”特聘教授、博士生导师。曾成功研发并在JSSC上发表了当时国际上第一颗全集成900MHz CMOS射频收发机芯片，长期从事高速通信芯片研发。



李建平

国家高层次人才、广东省特支计划科技创新青年拔尖人才、广州市珠江科技新星、广东工业大学“百人计划”特聘教授、博士生导师。长期从事高速光纤通信领域研究。

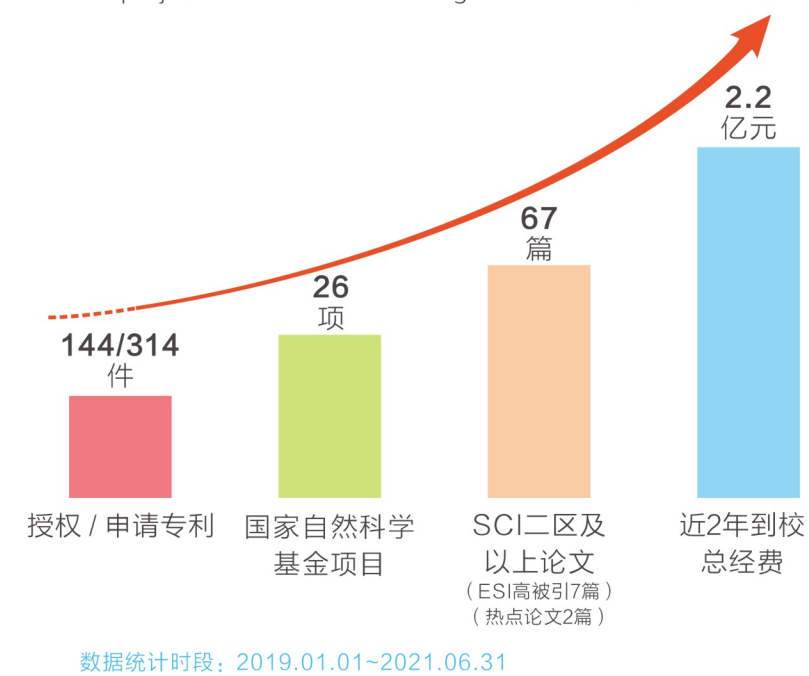


科学研究

围绕国家和大湾区发展规划纲要对新一代信息技术的发展需求，学院开展前沿通信与信号信息处理、核心芯片设计、先进光子技术、人工智能等创新性科学研究。学院科研氛围浓厚，科研经费呈跨越式增长，科研项目立项持续攀升，近三年在研纵向科研项目120项，在研横向科研项目41项，到校科研经费超2亿元。

ACADEMIC RESEARCH

Focusing on the development plan of the country and the Greater Bay Area to promote the new generation of information technology, the school carries out innovative scientific research in the field of advanced communications and signal/information processing, high-end IC design, advanced photonic technology, and artificial intelligence. The school has a strong scientific research atmosphere, with a leap-forward growth in scientific research funding, and the establishment of scientific research projects continues to rise. In the past three years, there are 120 on-going government-funded scientific research projects and 41 industry collaboration research projects. The research funding of the school exceeds 200 million RMB.



承担的标志性科研项目

科技部“宽带通信和新型网络”重点专项	2项
国家杰出青年基金项目	2项
国家优秀青年基金项目	1项
国家重大科研仪器研制项目	1项
国际（地区）合作与交流项目	1项
NSFC-广东联合基金重点项目	2项
广东省科学技术奖二等奖	2项

科研团队





科研教学平台

学院注重科研与产业深度融合，围绕“高水平大学”建设目标，积极推进省级研究中心、实验室与实践教学基地的建设，拥有先进的科研设备和教学实验条件。目前建有省级协同创新中心1个，省级重点实验室2个，省级工程中心7个，省级国际合作基地2个，省级实验室4个，与企业共建工程教育平台实践基地13个。此外，学院重视企业界与高校间的产学研协同，多项科研成果已得到推广应用。

RESEARCH AND TEACHING PLATFORM

The school values the deep cooperation and collaboration of scientific research and industry, and actively promotes the construction of provincial research centers, laboratories and experimental teaching center focusing on the goal of "high-level university" construction. The school has advanced scientific research equipment and teaching experimental conditions. At present, there are 1 provincial-level collaborative innovation center, 2 provincial-level key laboratories, 7 provincial-level engineering centers, 2 provincial-level international cooperation bases, 4 provincial-level laboratories, and 13 joint engineering education and practice platform with industry. In addition, the school pays great attention to the collaboration of industry, education and research between the university and enterprise, and a number of scientific research progress have been promoted and applied.



广州国家集成电路基地



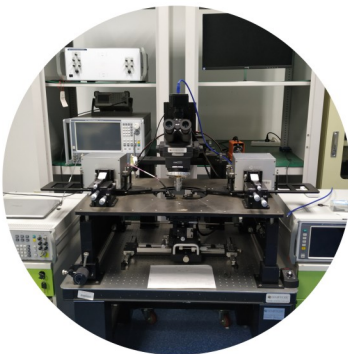
河源广工大协同创新研究院

科研教学平台列表

级别	平台名称	立项时间
国家级	广州国家现代服务业集成电路设计产业化基地	2013
	制造物联网技术国家地方联合工程实验室（合作）	2013
	广东省信息光子重点实验室	2020
省级	广东省知识产权大数据重点实验室（合作）	2018
	广东省类脑计算与深度学习工程研究开发中心	2017
	广东省通信技术与专用核心芯片工程技术研究中心	2016
	广东省仿生嗅觉与信息融合工程技术研究中心， 物联网智能信息处理与系统集成国际合作联合实验室（合作）	2016
	广东省移动通信技术实验教学示范中心	2015
	广东省重点产业知识产权大数据工程技术研究中心	2014
	粤港制造云服务国际合作基地	2014
	广东省信息存储与编码工程技术研究中心	2013
	广东省高校制造和知识产权大数据工程技术研究中心	2013
	广东省制造物联网技术工程实验室	2011
	广东制造物联网技术联合实验室	2010
	广东省信息技术实验教学示范中心	2007



信息光子重点实验室



高端应用电子芯片实验室



射频实验室

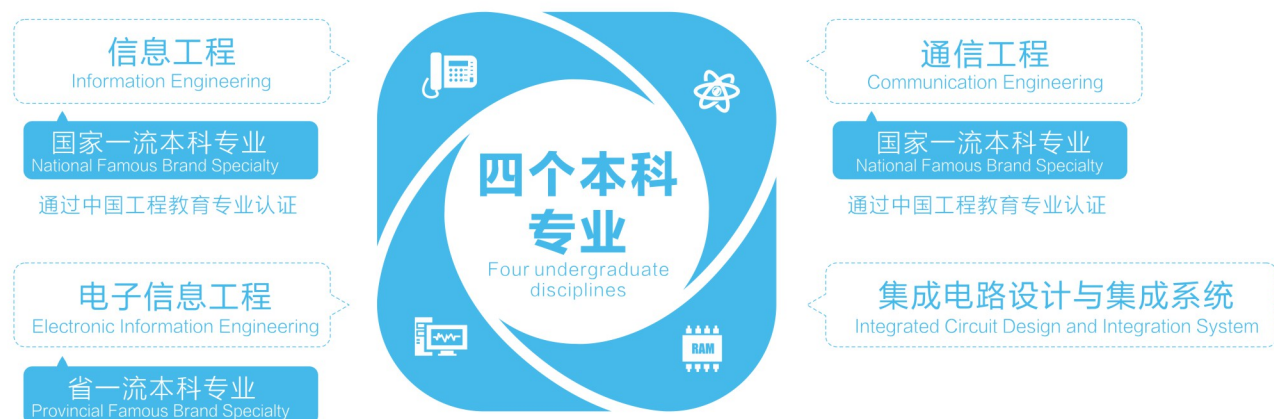


人才培养

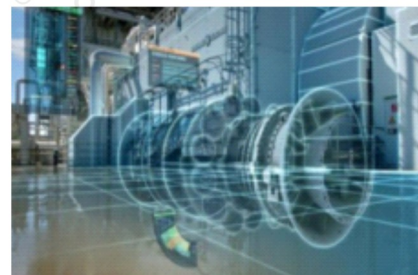
学院坚持本科人才培养中心地位，围绕立德树人根本任务，遵循以学生为中心、产出导向教育、质量持续改进的教育规律，深化重基础、强能力、宽视野、多样性、勇担当的专业改革主线，把“强能力”作为教学改革总体思路，构建了“多层次能力培养、多类型实现形式、多渠道资源组织”的实践教学体系。以校企合作为载体，多方协同企业等校外教育资源，打造创新实践教育平台和基地。学院把握新工科建设契机，构建跨学科多专业融合人才培养体系，打造了人工智能、机器人工程、腾讯云人工智能等3个新工科实验班，近300名学生参与多专业融合培养新工科人才的教学改革实践，人才培养成效显著，升学率和就业质量明显提高，受到社会的广泛关注和赞誉。目前学院有国家级一流本科专业建设点2个，省级一流本科专业建设点1个。

TALENT CULTIVATION

The school adheres to the central position of undergraduate talent training, focuses on the fundamental task of morality education and follows the education law of Student Centering (SC), Outcome Based Education (OBE), and Continuous Quality Improvement (CQI), and deepens the main line of professional reform of solid foundation, strong ability, broad vision, considerable diversity, and brave undertaking. The school takes "strong ability" as the general idea of teaching reform, and builds practical teaching system of "Multi-level Ability Training, Multi-type Realization Forms, and Multi-channel Resource Organization". With school-enterprise cooperation as the carrier, the school diligently collaborates with enterprises and other off-campus educational resources to create innovative practical education platforms and bases. The school seized the opportunity of New Engineering Disciplines construction, built a cross-disciplinary and multi-professional integrated talent training system, and established three New Engineering Disciplines Experimental Classes such of Artificial Intelligence, Robotics Engineering, and Tencent Cloud Artificial Intelligence. Nearly 300 students participated in the multi-professional integration of training new engineering talents. The teaching reform practice has achieved remarkable results in personnel training, and the admission rate of further education and employment quality have been significantly improved, which has received widespread attention and praise from the society. At present, the school has 2 national-level first-class undergraduate major construction sites and 1 provincial-level first-class undergraduate major construction site.



本科专业



信息工程专业

培养学生全面掌握信息获取、传输、处理以及应用方面的基础理论和相关技术，侧重于图像、音/视频信号处理技术及软件设计。本专业构建和实施了多模式、多样化的人才培养平台和人才培养体系，毕业生可成为宽口径和复合型高级工程技术人才，就业于电子信息产业各个领域。

通信工程专业

培养学生全面掌握通信工程专业中移动通信、光纤通信和计算机网络通信等方向的基础理论与专业知识，毕业生可成为从事通信工程领域研究、开发、制造、维护、运营和管理等方面的高素质应用型工程技术人才。

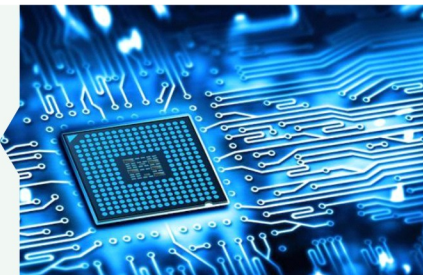


电子信息工程专业

培养学生掌握电子信息工程领域信息获取、传输、处理和应用的專業基础知识，毕业生可成为在电子信息相关领域从事技术和管理工作的高素质创新型应用人才。毕业生就业于电子信息产业各个领域，包括运营商，通信龙头企业，各类IT企业，银行、政府部门、金融机关和科研机构等单位。

集成电路设计与集成系统专业

培养学生掌握集成电路设计的EDA工具，熟悉电路、计算机、信号处理、通信等相关系统知识，毕业生可从事微电子技术领域的研究、集成电路设计、技术开发及工程应用等，成为具有创新意识和实践能力的工程应用型高级技术人才。



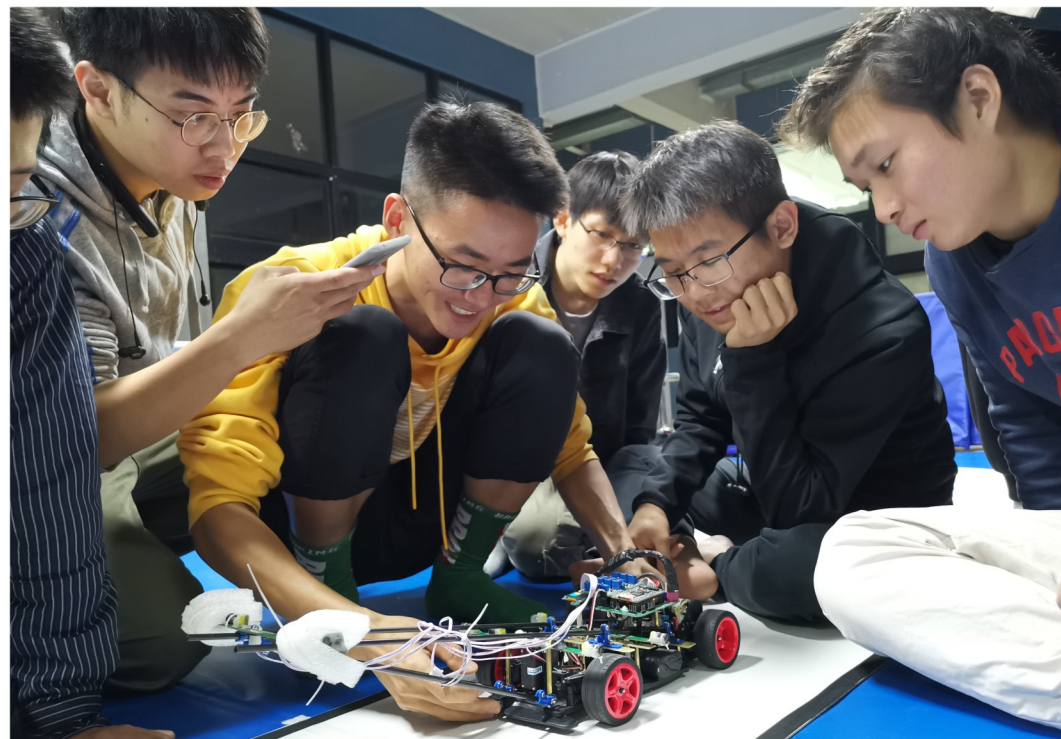


校园文化

学院开展丰富多彩的课外文化、科技活动，丰富学生课余生活，营造美好大学氛围，提升学生综合素质。每年举行党日团日活动、迎新晚会、体育比赛、社会实践等，充分展示学生的文艺特长，提升学生素质能力，培养学生创新发展意识和家国担当精神。

CAMPUS CULTURE

The school strives to build a variety of extracurricular cultural and technological activities, which enrich students' extracurricular life, create a beautiful university atmosphere, as well as improve students' overall quality, such as the annual party member and league member activities, welcoming party, sports competitions, and social practices. The school encourages students to be responsible for the country, and offer the chance for students to fully demonstrate their artistic expertise, enhance students' quality and ability, cultivate students' awareness of innovation and development.



智能车竞赛



学术论坛



校篮球赛冠军



迎新晚会

创新创业

学院每年均有大批学生在各类省级国家级专业学科竞赛中获得佳绩，创新创业成果丰硕。近年学院学生团队曾三次获得“挑战杯”大学生课外学术科技作品竞赛全国一等奖，一次获得“互联网+”大学生创新创业大赛全国银奖；多次在全国大学生电子设计竞赛、数学建模大赛、创新创业大赛、智能车竞赛获得较高奖项。学院每年10名研究生获得国家奖学金，1名研究生被评为省优秀研究生，研究生以第一作者发表SCI论文30篇以上，其中二区及以上论文15篇以上，获授权发明专利30件以上。学院每年为社会培养和输送800余名本硕博毕业生，本科生就业率超过96%，研究生就业率100%，就业率及薪酬均位居学校前列。学生得到社会的广泛认可，具有较强竞争力，就业质量和层次较高，深造率高。

> 96%

近三年就业率

Employment Rate
in the Past Three Years

INNOVATION AND ENTREPRENEURSHIP ACTIVITIES

Every year, a large number of students of the school have outstanding performance in various national and provincial competitions, who achieved fruitful results in innovation and entrepreneurship activities. They have won the 1st-class prize of the "Challenge Cup" National University Student Extracurricular Academic Science and Technology Competition for three consecutive years, 2nd-class prize of the "Internet+" National University Student Innovation and Entrepreneurship Competition, and have participated and won prizes for many times in the National University Student Electronic Design Competition, National University Student Mathematics Modelling Competition, Innovation and Entrepreneurship Competition, Smart Car Competition, as well as other innovation and entrepreneurship competition. Each year, 10 graduate students of the school receive national scholarships, and one graduate student is rated as provincial outstanding graduate student. Each year, the graduate students publish more than 30 SCI-index papers as the first author, including more than 15 papers in Q2 and above, and obtain more than 30 authorized patents. The school trains more than 800 undergraduates, masters, and PhD every year. The average annual employment rate of undergraduates exceeds 96%, and the average annual employment rate of postgraduates is 100%. The employment rate and starting salary are among the highest in the university. Students are widely recognized by the society, and have strong competitiveness, high employment quality level, as well as high rate of continuing postgraduate studies.



“互联网+”创新创业大赛



企业参观实习



企业奖学金



国际合作

学院始终积极推进创新型国际化人才培养，国际合作广泛，已与新加坡国立大学、新加坡南洋理工大学、香港科技大学、澳大利亚悉尼大学、香港理工大学、香港城市大学、美国加州大学尔湾分校、美国加州大学河滨分校、英国曼切斯特大学等多所海外知名大学和研究机构在学术研究、人才培养方面建立了良好的合作关系。

INTERNATIONAL COOPERATION

Our school always focuses on the quality improvement and talent training, had extensive international cooperation and actively promoted the innovation and internationalization of student training. The school already established good collaboration relationships with many prestigious universities and institutions all over the world, such as National University of Singapore, Nanyang Technology University, The Hong Kong Polytechnic University, City University of Hong Kong, University of California- Irvine, University of California- Riverside, and The University of Manchester(UK) in academic research and talent training aspects.



展望 EXPECTATION



凝练特色谋发展 提质增效创一流

学院坚持立德树人根本任务,秉承“与广东崛起共成长，为广东发展作贡献”的理念,牢牢把握广东省高水平大学建设的契机,不断提升学科综合实力和影响力，夯实人才培养基础，凝练培养特色，制订了适应广东经济社会发展的专业建设和学科发展规划，不断提升教学质量和科研水平，为培养德、智、体、美、劳全面发展的高素质、创新性复合型人才不懈奋斗。

The school insists on the fundamental task of strengthening morality education, firmly grasps the opportunity of the construction of high-level university in Guangdong Province, and lays a solid foundation for talent training, continuously improving the comprehensive strength and influence of the discipline. Adhering to the vision of "Developing with Guangdong and Contributing to Guangdong", the School of Information Engineering has condensed cultivation characteristics, formulated the major construction and the discipline development plan suiting Guangdong's economic and social development. Based on the development plan, the school will continuously improve the quality of teaching and scientific research, and work diligently for the development of high-quality, practical and innovative talents for the society and develop their moral, intellectual, physical and aesthetics in an all-round way.