

SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY



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**RESEARCH
INNOVATION
ENTREPRENEURSHIP**



WELCOME TO

SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY



“ Building SUSTech into an international, world-class university with Chinese characteristics is our unwavering goal. We have the courage, capability, confidence and determination to develop SUSTech, located at the frontier of innovation, into the most attractive university for academics and the most inspiring university for students around the world. ”

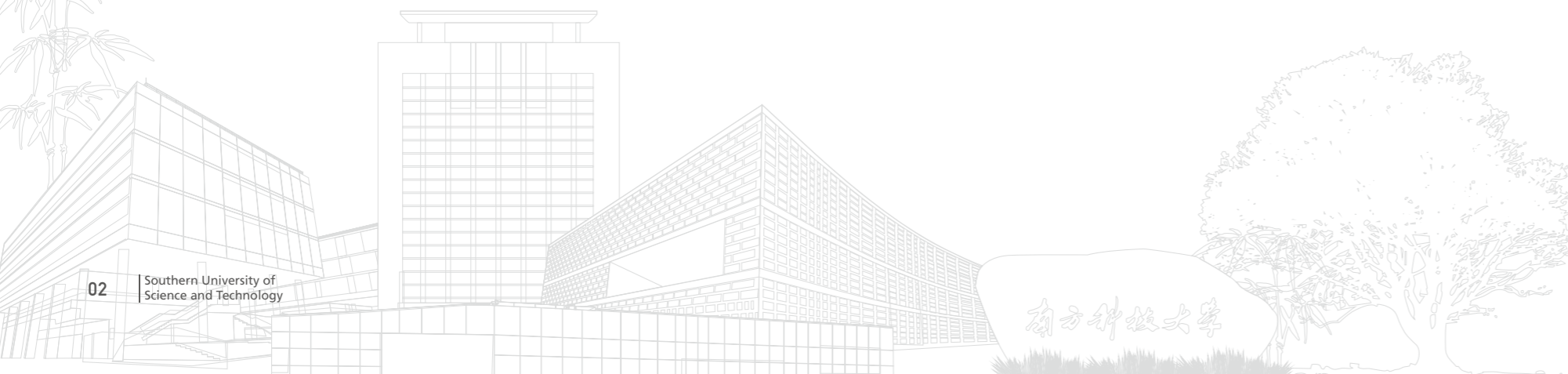
Yurong Guo

Chairperson of University Council, SUSTech

“ SUSTech was founded with the mission to reform. That is the spirit we carry on today. We synchronize change and creation, and spur development with innovation. Following the guidelines of international standards, frontier disciplines, entrepreneurship and innovation, SUSTech will stand out with distinctive characteristics. ”

Shiyi Chen

President, SUSTech





SUSTech is a public research university established in 2011, funded by Shenzhen Municipality. Widely regarded as a pioneer and innovator in collectively moving China's higher education forward to match China's ever-growing role in the international arena, SUSTech aspires to be a globally-renowned university that contributes significantly to the advancement of science and technology by excelling in interdisciplinary research, nurturing creative future leaders and creating knowledge for the world. Located in Shenzhen, one of the fastest growing cities in China and the country's window to the world, SUSTech enjoys strong connections with leading companies in China and renowned universities around the world.

QUICK FACTS

14

Schools/Departments



22

Academic programs



3,577

Undergraduates



761

Graduate students



375

Faculty members



18

Academicians and
Fellows of Academies



50%

Recipients of Thousand
Talents Program and
Thousand Young Talents
Program in Shenzhen



12:1

Student/Faculty ratio



- "6-3-1" Evaluation Admission Mode
- General education in the first two years
- Advising system: Academic & wellbeing dual advisors
- Partnership with **Robert H. Grubbs, a Nobel laureate in Chemistry**, to set up Shenzhen Grubbs Research Institute
- Partnership with **Johns Hopkins University** to establish the School of Medicine
- Graduates further study at world-renowned universities such as **University of Oxford, University of Cambridge** and **Yale University**

WE ARE A RISING STAR

Research

Innovation

Entrepreneurship

MISSION

Service To serve the needs of innovation-oriented national development

To serve the needs of building Shenzhen into a modern, international and innovative city

Reform To lead higher education reform in China and serve as a testing ground for building excellent research universities through innovation

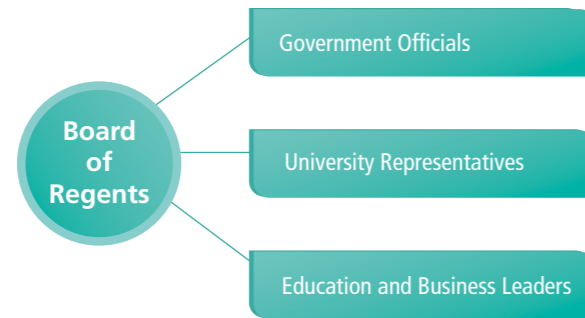
To serve as a model for reforming the education system and modernizing the national university system

GOAL

- 01 To be a world-class research university
- 02 To cultivate outstanding and innovative talents
- 03 To achieve internationally excellent research outcomes
- 04 To support the sustainable development of Shenzhen, Guangdong and the whole country by advancing knowledge and promoting the application of science and technology

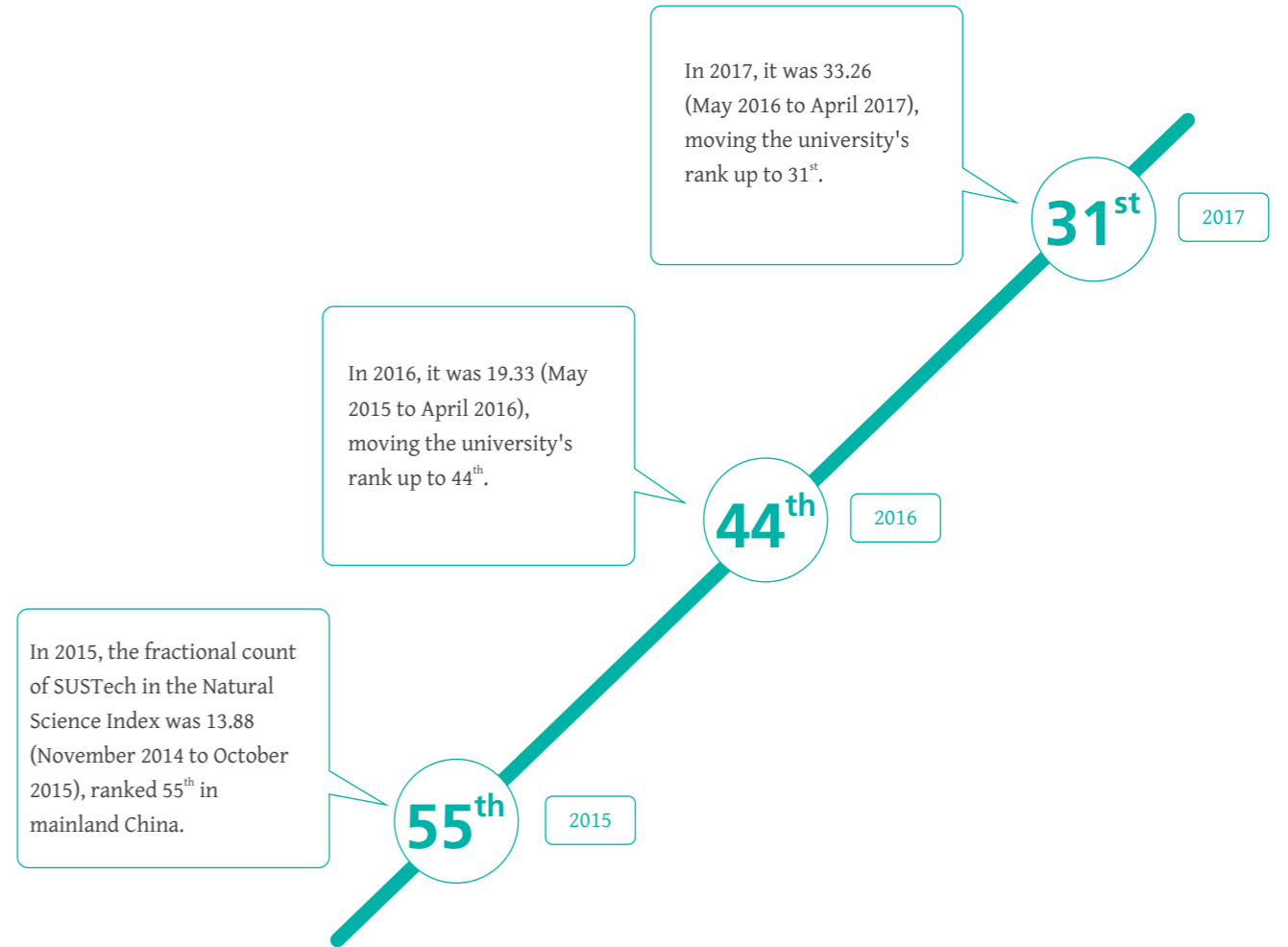
GOVERNED IN THE PRINCIPLE OF ACADEMIC AUTONOMY

Endorsed by the Shenzhen Municipal Government, SUSTech has established a modern governance system to ensure institutional autonomy. Governed by a collective Board of Regents, the university is led by the President under the auspices of the University Council, with full faculty participation in the governance of academic affairs.



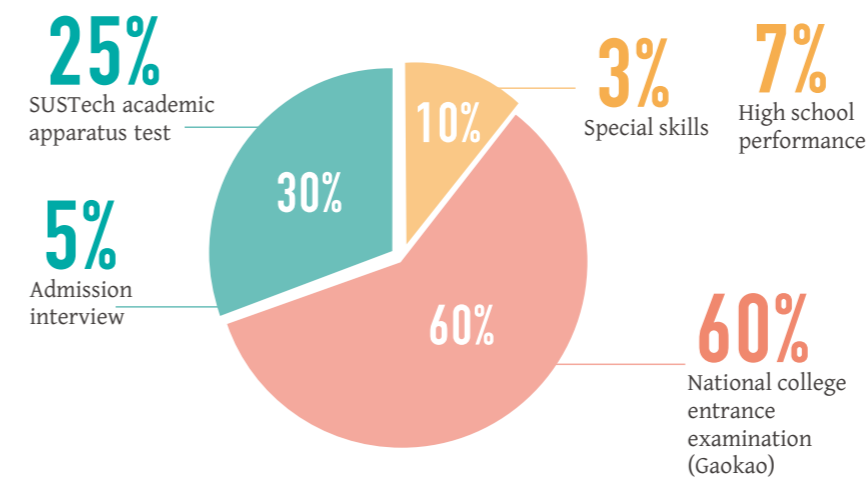
The University has also established the **SUSTech Education Foundation** to raise funds for operations and research. In 2014, SUSTech signed a cooperation agreement with Amer International Group which is a “Fortune 500” corporation, and established the “SUSTech-Amer Investment Fund” of **RMB 1 billion**. In 2016, Baoneng Group donated **RMB 100 million** to the SUSTech Education Foundation, and CheerLand Investment Group donated **RMB 110 million**.

OUR STRATEGIC GOALS



SUSTech was ranked by Nature Index 2016 Rising Stars as **the No.3 fastest growing institution** in the world in terms of the percentage change in WFC from 2012 to 2015.

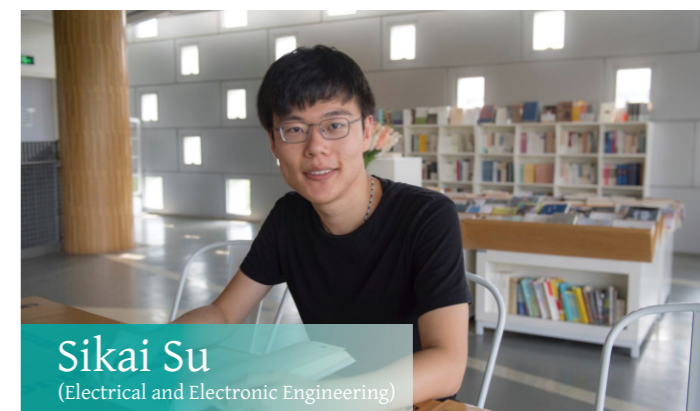
COMPREHENSIVE EVALUATION ADMISSION MODE



The “6-3-1 Evaluation” has eliminated disadvantages like “one-sided examination-oriented education” in traditional systems of examination and admission. The “6-3-1 Evaluation” was first implemented by SUSTech in 2012, leading the reform process for the national college examination system. SUSTech will not admit students who have high grades with Gaokao but low scores in the SUSTech academic apparatus test. However, SUSTech will admit students who show great innovation abilities in the evaluation process, even if they don’t have the highest score at the national college entrance examination.

MEET OUR STUDENTS

For the Classes of 2015 and 2016, more than 60% of students were admitted to world-famous universities, most of whom advanced to doctoral degree programs. For the Class of 2017, more than 50% did further studies in internationally known universities, including the University of Cambridge, the University of Oxford, and the University of Chicago; for those who have chosen to find a job, more than 90% work in Shenzhen and other parts of Guangdong Province, over 40% of whom are hired by high-tech enterprises, including Huawei, ZTE, Tencent and DJI.



Sikai Su
(Electrical and Electronic Engineering)

Why SUSTech: “I wanted to participate in the growth of an innovative university and was attracted to the innovative teaching system and the atmosphere of school life at SUSTech.”

Greatest Feeling: “No matter how difficult it is to achieve a goal you set at first, you will make it here at SUSTech if only you make efforts towards it.”

Biggest Change: “I’ve become more cheerful and optimistic, and have more courage to make contact with strangers and discover areas about which I don’t know much.”

Research Focus: “Currently, I’m doing research on ‘flexible printed quantum dot display devices’, supported by the key projects of the ‘Climbing Program’ launched by the Youth League Committee of Guangdong Province.”

Professors: “I really value the substantial opportunities to exchange with my advisors and professors here. This is instrumental in leading and guiding my learning and research, while at the same time helping me a lot with my life and future planning!”

Residential College: “I feel each of SUSTech’s colleges is provided with a liberal, comfortable and warm environment, and is also a free space where we can express our personality regardless of grades and classes; with a wide range of experience sharing and social activities, it also represents a place for exchanges and learning in a diversified fashion.”

Outside of Class: “I joined the Optics Association and Science Fiction Association. I love partaking in various board role-playing games, and enjoy observing the things around me in my free time.”

Future Planning: “I hope to apply for a doctoral program, making efforts on discovery and invention and making my contributions to the display domain so as to be a man of great achievements.”



Shifan Lin
(Materials Science and Engineering)



Janka Komlósi
(International Freshman)
Eger, Hungary

Why SUSTech: “The relatively small number of students at SUSTech ensures abundant teaching resources available to all of us. English-only teaching helps me with English, and the policy that we can choose a major at the end of the 2nd year enables me to make a decision after knowing myself better.”

Greatest Feeling: “I’m fond of the free academic ambience at SUSTech.”

Biggest Change: “I’ve learned to embrace diversified values.”

Research Focus: “3D-printed titanium-aluminum alloy.”

Professors: “My Department Advisor not only guides me to finalize the research topic based on my research interests and assign doctoral students to instruct us in experiments, but also helps me pinpoint my career direction through pros and cons analysis. On a large scale, for the advisors at SUSTech, what strikes me most is their experiences and personalities, and when coming into contact with these amiable professors, you will gradually know what kind of person you want to be.”

Residential College: “Unlike an interest club, a college serves as a platform where I can push boundaries of majors and grades to make friends and chat with people from all walks of life. The college I’ve joined hosts a large number of activities, such as lectures given by leaders from various industries or companies, to help us enhance our all-rounded quality.”

Outside of Class: “I’ve signed up for Latin Dance Club, Shuren Water Bar, Gakki Dance Club, Hip-Hop Club and Tea Club.”

Future Planning: “I’m considering both studying abroad and getting a job. I will make a final choice based on the actual situations.”

Why SUSTech: “A university in China, in such an abruptly developing city as Shenzhen, as well as the English language of education were the deciding factors. In this university I have the chance to improve not only my academic but my social skills, and to broaden my perspective.”

Greatest Feeling: “The welcoming spirit of this place.”

Biggest Change: “My own person. I have become much more talkative, confident enough to voice my ideas, and more open to take in everything that is new.”

Professors: “Qualified, enthusiastic and supportive. I have not been here for too long, but the professors I have met so far were open-minded, had presence and some great stories to share. Being a Hungarian student in China, I especially like the internationality of the faculty body.”

Residential College: “Our college is provided with a comfortable, practical and relatively quiet environment, and is full of helpful and warm-hearted schoolmates. While we do not know each other enough, a good community is already forming among the dormitories walls. The college hosts several activities in various forms to get its students, as well as people from other dormitories together, and gives us the chance to spend our time usefully and pleasantly.”

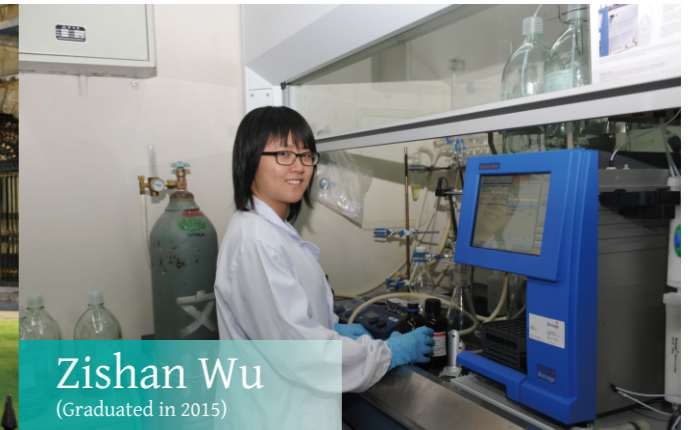
Outside of Class: “I have signed up for the Latin Dance Club and joined the baking club on our campus. I also hope that I will have some time to improve my artistic abilities.”

Future Planning: “While I have no strict plan for my future, I know that I am at the right place now. I hope I will have the chance to take part in the student exchange programs, and to complete my studies successfully.”

OUR ALUMNI



Jiale Wang
(Graduated in 2015)



Zishan Wu
(Graduated in 2015)

Position after Graduation: PhD program in Material Science and Engineering, University of Oxford

Professors: “My Department Advisor often gave up his spare time to discuss with me deep into the night. Each time I stayed with my advisor, he always shared and exchanged with me his experience very patiently, which not only helped me solve the problems in study and life, but also gave me a clear picture of many world renowned universities and broadened my horizons through his presentation.”

Thanks SUSTech: “SUSTech’s heuristic and interactive teaching methods have greatly stirred up my interest in learning and my research enthusiasm. In the advisor group, I learned lots of specific research skills, and more importantly, developed my own research capabilities of critical thinking and independent thinking. For me, further studies at Oxford is a continuation of my four-year life at SUSTech.”

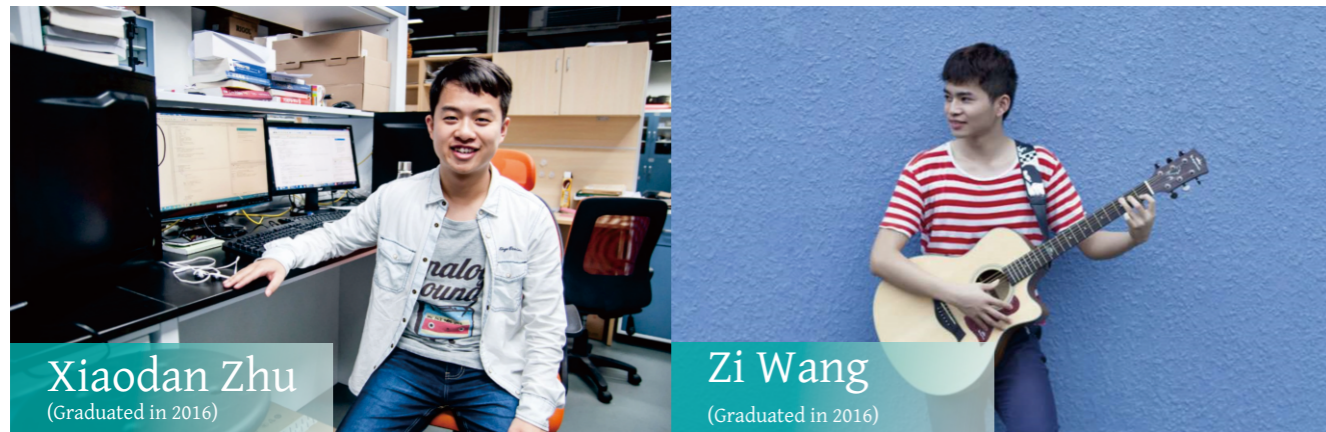
Position after Graduation: PhD program in Chemistry, Yale University, with full scholarship

Professors: “I never thought that I could work on research in my life and even didn’t expect to apply for a top-notch university. This was attributed to the encouragement and guidance of my advisors who fostered my capabilities to do research and let me have a try, find myself and express myself. What advisors can give us is life guidance besides academic guidance. I’d like to extend my special thanks to them.”

Outside of Class: “I like playing basketball and e-games. In the past, I often went cycling with my classmates and even went to the desert region of Northwest China with my classmates to experience the chilly winter there. I’m also good at cooking steamed fish and once ‘developed’ a unique sauce for cooking.”

Thanks SUSTech: “At SUSTech, which gave us the best educational resources, I enjoyed the processes of learning and research, really learned skills and made some true friends. It was at SUSTech that I discovered the splendor of life.”

OUR ALUMNI



Xiaodan Zhu
(Graduated in 2016)

Zi Wang
(Graduated in 2016)

Position after Graduation: Technology management in National Instruments (NI)

Professors: “There is a broad range of cutting-edge instruments available in SUSTech’s laboratories. Our advisors and laboratory technicians were all willing to help us, and the labs created a home away from home.”

Outside of Class: “As the captain, I led our team to compete for the International Genetically Engineered Machine Competition (iGEM) hosted by MIT and won the gold medal.”

Thanks SUSTech: “From opportunities to enter various competitions, labs open to undergraduates and to the chance for undergraduates to work on projects together with their Apartment Advisors, SUSTech offers so many opportunities to the students.”

Position after Graduation: PhD program in Chemistry, Duke University

Professors: “I often took the initiative to talk to my Residential College Advisor about my confusion in life. He encouraged me to actively face the impact of the new life at SUSTech and find a way that fits me.”

Outside of Class: “I set up the Hip-hop Club with some other dance lovers. I wanted to be the best dancer among chemistry researchers.”

Thanks SUSTech: “At SUSTech, I learned that the difficulties in life are just like activation energy in chemical reactions. If only we get over this obstacle, our study life will get smoother and some of the problems will be readily solved.”

OUR ALUMNI



Shuhan Bao
(Graduated in 2017)

Rongyu Lin
(Graduated in 2017)

Position after Graduation: Master program at Columbia University

Professors: “The fact that we start our major from the third year allows us to have more time and space to explore our own interests. And the academic advising system enables us to be exposed to scientific research at a very early time and find the research direction in which we are really interested.”

Outside of Class: “I like participating in club activities and designing some posters and other beautiful illustrations with Photoshop. I also like reading all kinds of literary works and writing essays and novels quietly sometimes.”

Thanks SUSTech: “I’m honored to be a part of SUSTech. The better SUSTech is, the better we can get. We should make ourselves stronger to be on a fast track together with SUSTech!”

Position after Graduation: PhD program in Physics, Emory University

Professors: “Our advisors’ productivity, intellectual capabilities, and commercial awareness inspired me a lot. Our ultimate goal should not be limited to doing research and publishing articles, but making contributions to society with our research in combination with social practices can truly help to make what we research meaningful.”

Outside of Class: “In early 2017, I collaborated with my classmate Liu Lingyu to found Shenzhen Lingyu Culture Communication Co., Ltd., which offers online education with reference to the academic advising system specific to SUSTech.”

Thanks SUSTech: “SUSTech is a new university that encourages learning, innovation and entrepreneurship. Many new elements inherent in it brought me new thinking and let me find a new direction of progress in life.”

NURTURING THE FUTURE LEADERS



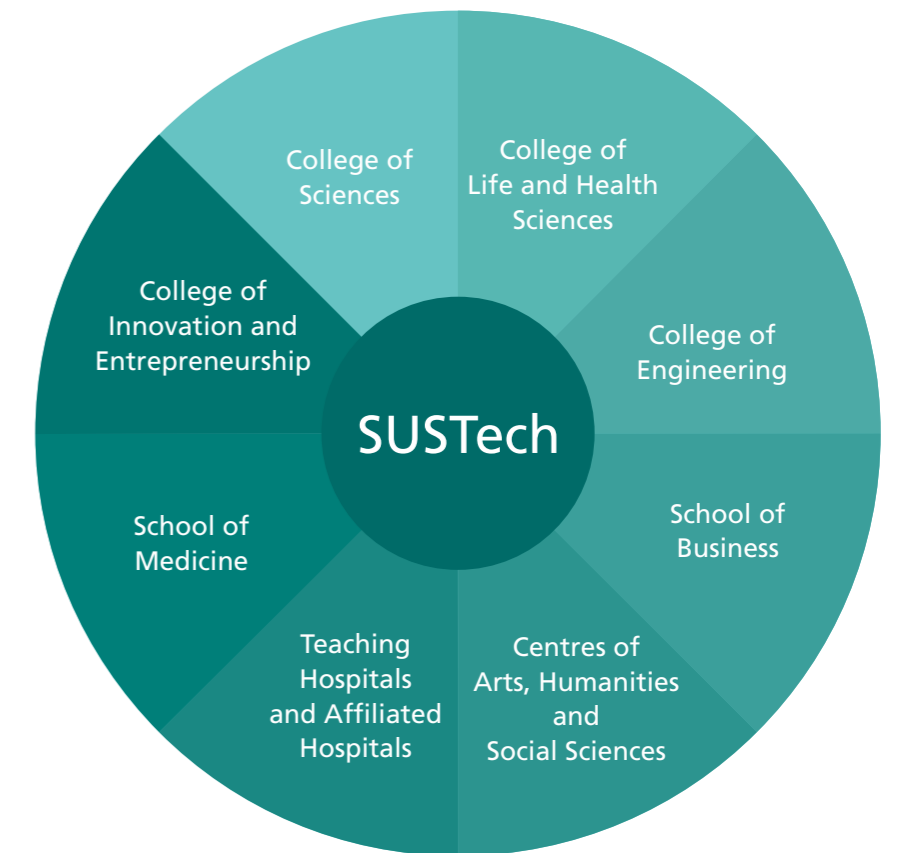
PROJECTION OF 2020

8,000+ students as the full capacity in 2020 with 4,000 undergraduates and 4,000 postgraduates

800+ faculty members as the full scale in 2020



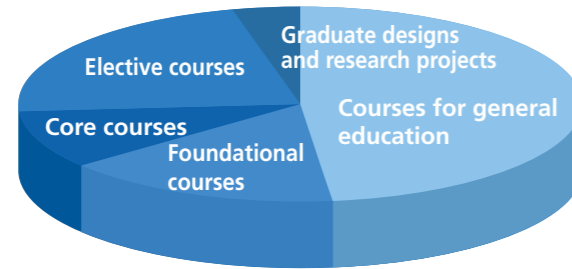
ACADEMIC PROGRAMS



Aiming to grow into a top-tier research university, SUSTech focuses on science and engineering, along with a selected program in medical science, humanities and social sciences. This initiative is driven by the need to support emerging industries nationwide, with a focus on the Pearl River Delta region specifically. Drawing on the best practices of world-class universities, SUSTech conducts research in frontier areas of study, and takes a leading role as the think tank in social development as well as being a source of new knowledge and new technology.

Students may choose from 22 majors in 14 academic departments. In the next five years, SUSTech will gradually establish seven schools in sciences, engineering, life and health sciences, medical science, business, humanities and social sciences and innovation and entrepreneurship. Each school will consist of several departments.

COURSE STRUCTURE



Internationalized curriculum synchronized with that of the world's top universities

English as instructional language

Integration of general education and subject learning

Student-centered innovation and entrepreneurship training and projects

Emphasize lab practice and internship

Early participation in research supported by faculty supervisors

Grants available for students' overseas internships, study programs and exchanges

Courses for General Education

A wide range of courses

Curriculum with breadth and depth

General education in the first two years

Required Courses for General Education

Mathematics, Physics, Chemistry, Biology, English, Arts, Humanities and Social Sciences

Elective Courses for General Education

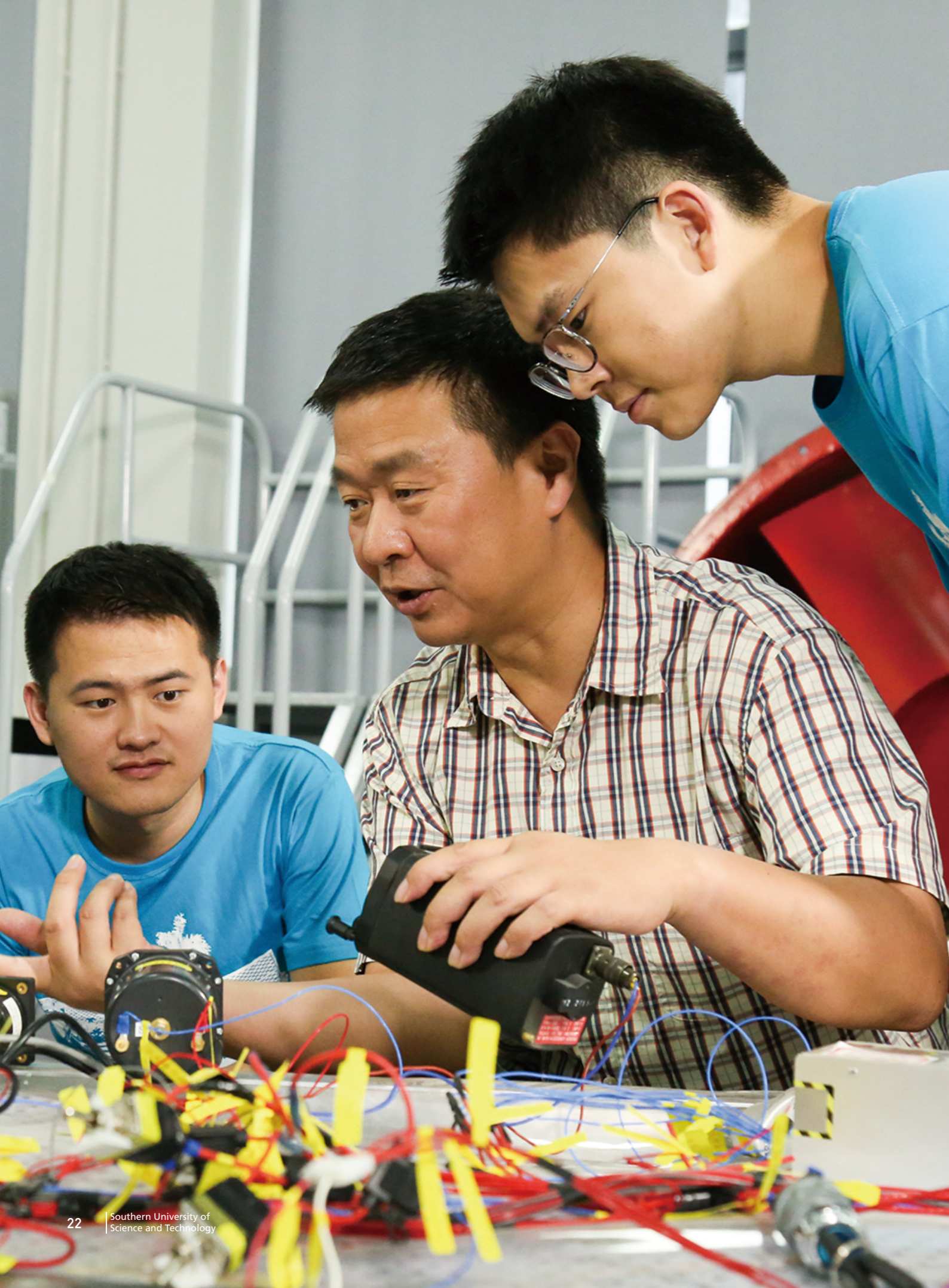
Module of science and technology

Module of social sciences, culture, and world civilization

Module of literature, history, Chinese culture and classics

Module of aesthetics and arts





EDUCATIONAL MODE



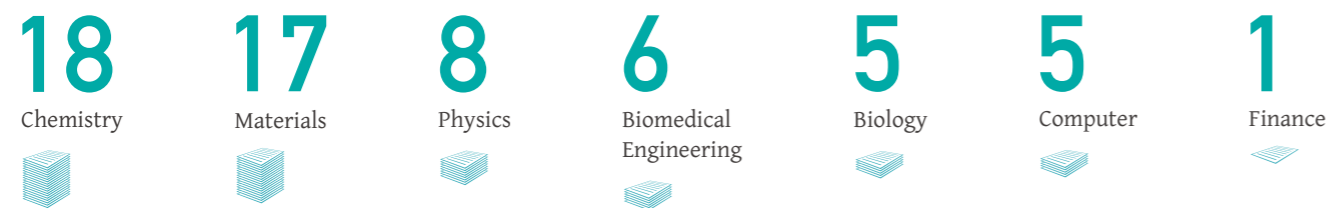


STUDENT ACHIEVEMENTS

SUSTech student teams WON:

- 3 successive championships in the International Genetically Engineered Machine Competition (iGEM)
- The gold prize in the University Physics Competition in the US
- The first prize in the National University Students Mathematics Modeling Contest
- The first prize in the China University Financial Elite Contest
- The grand prize in National Undergraduate Financial Futures and Derivatives Knowledge Contest

Number of published papers by undergraduates



INNOVATION AND ENTREPRENEURSHIP EDUCATION

- SUSTech-sponsored “innovation and entrepreneurship” programs
- Online courses on innovation and entrepreneurship synchronized with those at the world’s top universities
- Supervised entrepreneurial practice
- Hands-on experience in the SUSTech Student Startup Workshop

Residential College

Academic Advising System

Study Abroad

Credit System



Further Study in China

Individualized Education

Education with International Outlook

High-level Professional Placement

Education for Excellence

Columbia University

Social Leaders

California Institute of Technology



University of Oxford

Peking University

Senior Level S&T Managers

SUSTech

Harbin Institute of Technology



招商银行
CHINA MERCHANTS BANK

Business Professionals

HUAWEI



Tencent 腾讯

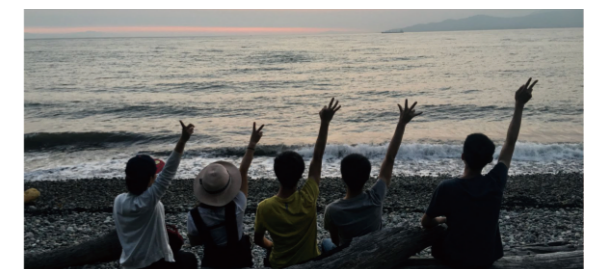
STUDY ABROAD

During the summer vacation of 2016, students of SUSTech participated in the Summer Program of Temple University and accompanied professors of Temple University to make a cultural exchange visit to Philadelphia.



During the summer vacation of 2017, University of East Anglia provides a four-week international course on 13 subjects (such as computer science, business, psychology, etc.) with more than 40 contact academic hours and extensive social program for SUSTech students.

SUSTech has cooperated with the University of British Columbia, Canada for more than 3 years and has sent almost 300 students to participate in the UBC Vancouver Summer Program, a four-week academic program of 55 course package options offered by various Faculties at the University of British Columbia.





DISCOVER OUR FACULTY

By September 2017, 375 faculty members were hired by SUSTech. Among the faculty body are 18 academicians and fellows of Academies, 48 recipients of the Thousand Talents Program, 15 Changjiang Scholars, 15 recipients of The National Science Fund for Distinguished Young Scholars, 61 recipients of the Thousand Young Talents Program and 231 awardees of the Shenzhen Talent Peacock Plan.

FACULTY STRUCTURE



100% hold PhD degrees



90% have worked overseas



60% are from the top 100 universities in the world



50% are recipients of Thousand Talents Program and Thousand Young Talents Program in Shenzhen

18

Academicians and Fellows of Academies



15

Changjiang Scholars



15

Recipients of "The National Science Fund for Distinguished Young Scholars"



231

Awardees of the Shenzhen Talent Peacock Plan



SUSTech has a first-class faculty body with highly international background.



Zhenghe Xu

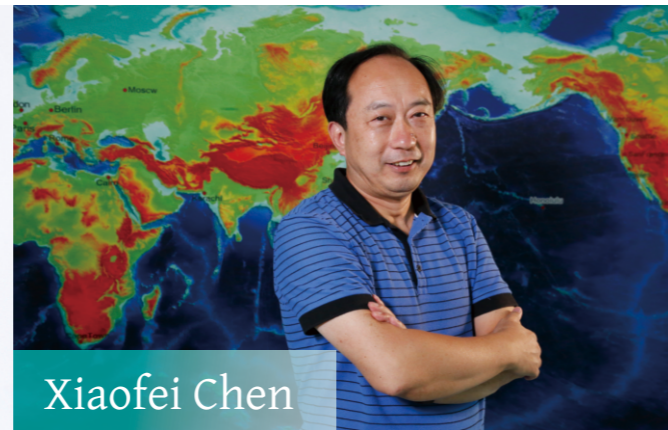
Chair Professor
Dean, College of Engineering
Fellow of the Royal Society of Canada and Fellow of the Canadian Academy of Engineering

RESEARCH FOCUS: Interfacial science and surface engineering for energy, environment and biomedical applications

SAY SOMETHING ABOUT RESEARCH: Research is about reveal of unknowns for better life

WHY SUSTECH: SUSTech is a place full of enthusiastic and bright people who make the difference for others' life

AS A TEACHER: Opportunities are always for those who are prepared and SUSTech provides the soil for you to be ready



Xiaofei Chen

Chair Professor
Head, Department of Earth and Space Sciences
Academician, Chinese Academy of Sciences

RESEARCH FOCUS: Theoretical and computational geophysics

RESEARCH: On scientific research, 99% of completion is only half way, the rest 1% is crucial to new findings and success

WHY SUSTECH: SUSTech is the most possible place of turning dream to reality

STUDENT SAY: Professor Chen not only teaches us the methods of how to study sciences, but also gives us guidance of how to live a modest and earnest life by being a role model himself

AS A TEACHER: Let's work together to make today's dream tomorrow's reality



- In 2016, Elsevier released the Most Cited Researchers in China, in which President Shiyi Chen ranked **No. 2** in Physics and Astronomy, Academician Dapeng Yu ranked **No.3** in Physics and Professor Xumu Zhang ranked **No. 13** in Chemistry.
- The program spearheaded by Professor Tao Tang and entitled “self-adaption and highly-precise numerical methods and theoretical analysis” won the **second prize of 2016 China National Award for Natural Science**.
- Assistant Professor Kai Wang worked as a key member in the team of “multi-interface light - thermal coupling white light LED packing optimization technology”, which won the **second prize in 2016 China National Technical Inventions**.
- Professor Yifan Chen and Associate Professor Chun Cheng won the **Shenzhen Science and Technology Award for Young People** for 2015 and 2016.
- Professor Xumu Zhang won the **Asian Core Program Lectureship Award** in 2016.
- Professor Qing Hu won the **IBM Faculty Award** in 2016.

SUPPORT

Faculty hiring and promotion of SUSTech follows international standards and adopts the tenure system. SUSTech offers a competitive salary package, faculty housing on campus, ample laboratory space, generous start-up funding, and modern teaching facilities. This is a place where the faculty can realize their dreams.



SEEKING
**GLOBAL
ADVENTURE**

OVERSEAS PARTNERS

North America

- Columbia University
- University of California, Los Angeles
- Johns Hopkins University
- University of Michigan
- University of British Columbia
- University of California, Irvine
- Georgia Institute of Technology
- Stony Brook University

Europe

- University of Copenhagen
- Friedrich-Alexander-Universität Erlangen-Nürnberg

United Kingdom

- University of Oxford
- University of Edinburgh
- University of Birmingham
- King's College London
- University of Leeds
- University of Warwick
- University of East Anglia
- University of Surrey

Asia Pacific

- University of Sydney
- National University of Singapore
- University of Queensland
- University of Hong Kong
- Hong Kong University of Science and Technology



International Advisory Council Members



Henry T. Yang (Chair)
Chancellor, University of California, Santa Barbara



Tony F. Chan
President, Hong Kong University of Science and Technology



Xinhe Bao
President, University of Science and Technology of China



Lino Guzzella
President, ETH Zurich



Peter Høj
President, University of Queensland



David W. Leebron
President, Rice University



Jianhua Lin
President, Peking University



David Richardson
Vice-Chancellor, University of East Anglia



Louise Richardson
Vice-Chancellor, University of Oxford



Mark S. Schlissel
President, University of Michigan



Choon Fong Shih
University Professor, National University of Singapore



Sung-Chul Shin
President, Korea Advanced Institute of Science and Technology



Samuel L. Stanley Jr.
President, Stony Brook University



Eng Chye Tan
President Designate, Deputy President (Academic Affairs) and Provost, National University of Singapore

Times Higher Education Asia Universities Summit 2018



Connecting Cities, Changing the world:
Research Universities Building Asia

5-7 February 2018, Shenzhen



As the host of the *Times Higher Education Asia Universities Summit 2018*, SUSTech will welcome senior leaders from Asia's best universities, top researchers, policy-makers and industry chiefs to debate and share their strategies on a range of important challenges confronting the global higher education world. The summit will also include the exclusive launch of the 2018 *Times Higher Education Asia University Rankings*.

JOINT GRADUATE PROGRAMS WITH OVERSEAS UNIVERSITIES

(Incomplete list)



INTERNATIONAL COLLABORATIONS



Ms. Irina Bokova, Director-General of UNESCO, visited the newly established International Centre for Higher Education Innovation (ICHEI) at SUSTech, which is a Category 2 Centre under the auspices of UNESCO. (2016-11-12)



SUSTech signed an agreement with Johns Hopkins University to jointly prepare for a high-quality medical school that meets international standards. (2016-07-19)



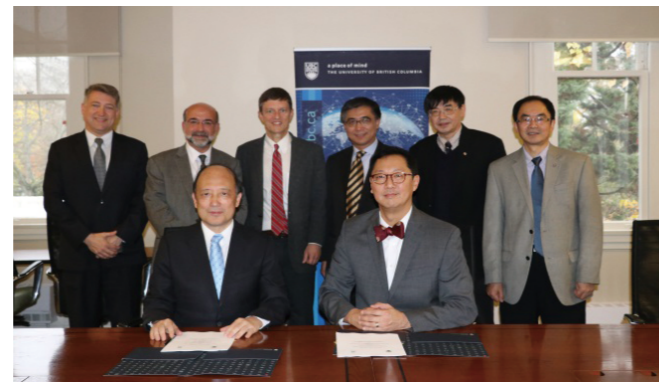
Dr. Samuel Stanley, President of Stony Brook University visited SUSTech and met with Dr. Qin Xu, former Mayor of Shenzhen. (2016-06-17)



President Shi Yi Chen met with University of Oxford's President Louise Richardson, who has accepted President Chen's invitation to become a member of the SUSTech International Advisory Council. (2017-09-04)



SUSTech hosted a two-day workshop with faculty members from MIT Mechanical Engineering led by Department Chair Prof. Gang Chen. (2017-01-05)



SUSTech signed an agreement with the University of British Columbia to establish a dual PhD degree program in Engineering. (2016-11-07)



SUSTech signed an MOU with the University of East Anglia to explore research and education collaborations. (2016-08-12)



Dr. Henry Yang, Chancellor of the University of California, Santa Barbara, chaired a meeting of the external Advisory Committee of SUSTech to discuss the University's long-term strategy and development. (2012-07-07)



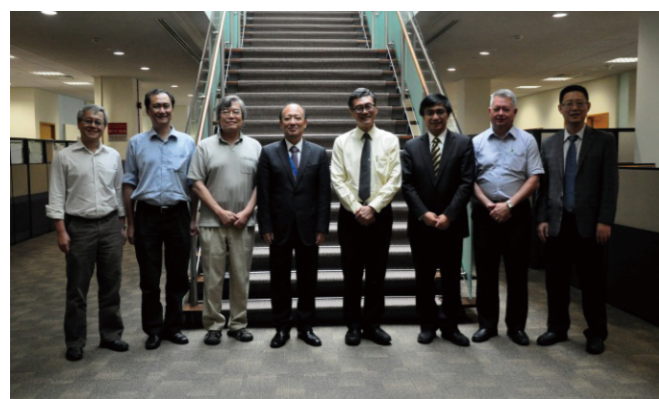
SUSTech signed an agreement with the University of Michigan and Beijing Institute of Collaborative Innovation. (2016-10-15)



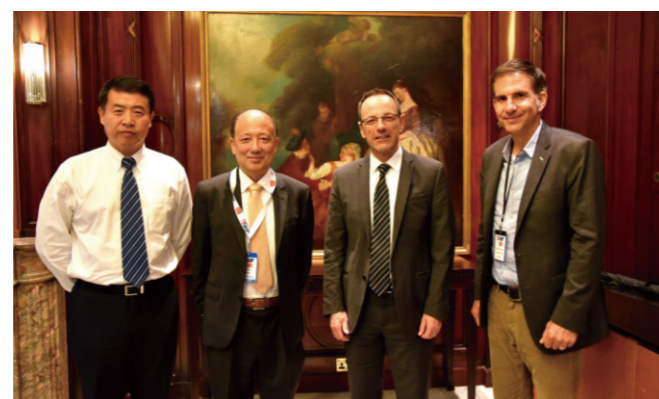
SUSTech signed an agreement with the University of Queensland (UQ) and hosted a two-day workshop with UQ professors in Engineering and Neuroscience. (2016-10-12)



President Shiyi Chen met with KAIST President Sung-Chul Shin after delivering a keynote speech at the annual KAIST Research Day Event. (2017-05-22)



President Shiyi Chen met with Dr. Eng Chye Tan, Deputy President (Academic Affairs) and Provost of National University of Singapore, to explore collaboration opportunities between NUS and SUSTech. (2015-09-17)



President Shiyi Chen met with Dr. Lino Guzzella, President of ETH Zurich, who has accepted President Chen's invitation to become a member of the SUSTech International Advisory Council. (2017-09-05)



President Shiyi Chen visited HKUST and met with President Tony Chan and his leadership team to explore collaboration opportunities at all levels. (2015-02-27)



FROM **IDEA** TO **INNOVATION**

Research programs constitute the foundation for the cultivation of high-quality talents and development of excellent disciplines.

As a young university, SUSTech started to apply for research grants in 2012.

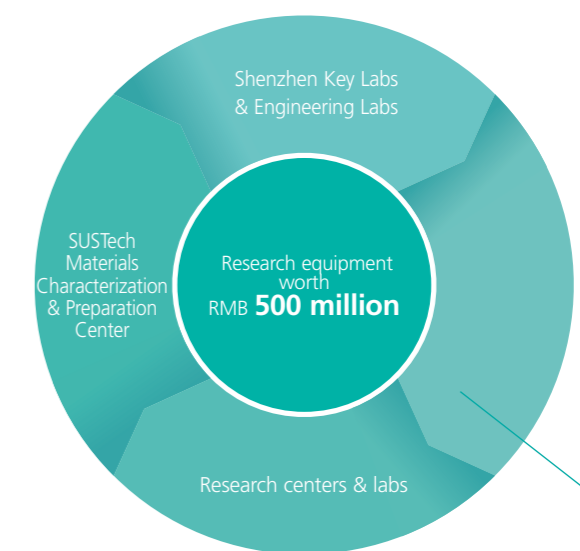
At present, SUSTech is undertaking **465** research programs, sponsored at the national, provincial and municipal levels, receiving research grants of **RMB 606 million** in total.

In 2015, per capita research grants amounted to **RMB 828,700**, ranked **No. 7** among Chinese universities.

In 2016, SUSTech undertook 198 research programs and received total grants of **RMB 382.145 million**, which is **2.5 times** more than that of 2015 and nearly **7 times** more than that of 2014.

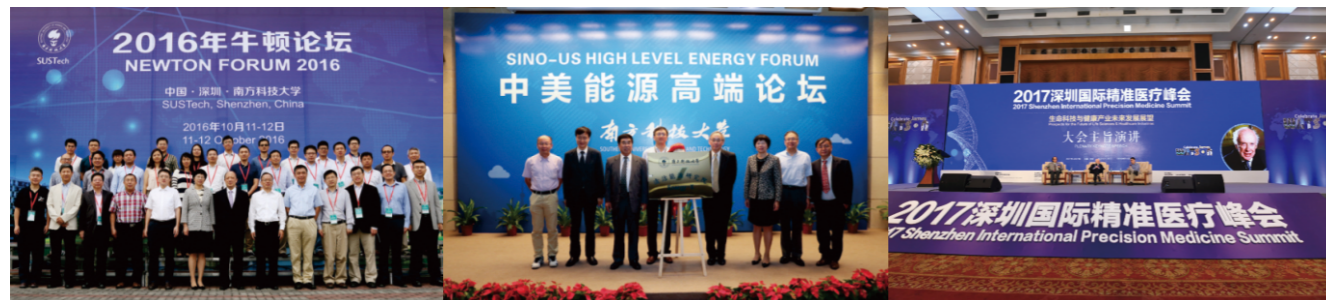
In the past five years, SUSTech has published **1,606** journal papers.

RESEARCH PLATFORMS



Research centres, laboratories and other research platforms are the core of the academic system at SUSTech. Extensive financial support from Shenzhen Municipal Government has been provided.

ACADEMIC CONFERENCES HOSTED BY SUSTECH



INTEGRATION OF RESEARCH, TEACHING & TECHNOLOGY TRANSFER

- University policies encourage and support technology transfer. 22 enterprises have been established and 8 more are in the process of registration
- Abundant space is provided to innovation and entrepreneurship. 150,000 m² has been designated as the university's science park for entrepreneurial efforts of professors and students
- SUSTech officially established the College for Innovation & Entrepreneurship
- SUSTech is building an international Maker Space to promote innovation and entrepreneurship-oriented teaching, research, and international cooperation

Professor Jiankui He and Direct Genomics Co.

“ It is expected that people will need to spend only about \$100 to detect their genetic information to create a personalized genetic ID by 2019 or so. ”

On February 5, 2016, Nature Biotechnology Journal, a top journal in biotechnology with an impact factor of 41.5, ran a story about the third generation gene sequencer developed by Jiankui He, Associate Professor of Biology at SUSTech and CEO and founder of Direct Genomics, a gene sequencing company focusing on clinical diagnosis.

Professor He completed his postdoctoral work at the lab of Professor Stephen Quake, a fellow of the National Academy of Sciences in the United States. Professor Stephen Quake now serves as the chief scientific advisor to Direct Genomics.

In August 2017, the third generation gene sequencer was developed by Professor Jiankui He and his team. A pilot production of prototype has been completed. According to Professor Jiankui He, the third generation gene sequencer has made a key breakthrough in optical, biological agents and other areas, and can directly read the most primitive DNA or RNA molecular sequence, which improves the gene sequencing speed and reduces the cost of clinical gene sequencing.



At the beginning stage, SUSTech plans to establish 26 research centers. By 2020, the university will complete the construction of about 20 research centers with two to three added every year. The 26 centers will be:

1	Center for Micro/Nano-Scale Science and Technology	14	Center for Neuro and Cognitive Sciences
2	Center for Material Manipulation and Application	15	Institute of Public Health
3	Advanced Electronics and Information Technology Research Center	16	Animal Center
4	Center for Robotics and Artificial Intelligence	17	Big Data and Large-Scale Computational Research Center
5	Advanced Manufacturing Research Center	18	Functional Molecules Science & Engineering Research Center
6	Institute of Marine Studies	19	Center for Picoscale Fundamental and Applied Research
7	Institute of Aeronautics and Astronautics	20	Soft Materials Research Center
8	Environment and Resources Utilization Research Center	21	Financial Innovation Research Center
9	New Energy Research Center	22	Higher Education Research Center
10	Future City Research Center	23	Materials Characterization & Preparation Center
11	Industrial Design and Creative Arts Center	24	Nutrition and Aging Research Center
12	Life Science Research Center	25	Neutron Science Center
13	Biomedicine and Bio-Engineering Research Center	26	Advanced Photonics Research Center



SUSTAINABILITY

AT SUSTech



CAMPUS DEVELOPMENT

The campus of SUSTech sits on a scenic stretch of land with winding creeks and tree-lined hills in the Nanshan District of Shenzhen, covering an area of **1,943,800m²**. The total construction area is more than **640,000m²** and will be completed in two phases.

Phase I, which comprises 32 buildings and complementary facilities, is 202,600 m², a capacity sufficient for 2,100 students with functions for teaching, research, administration, recreation and residential life. Phase II and Phase I extension are about **438,000m²**, projected to be completed by 2019. Upon completion, the campus of SUSTech will meet the needs of 8,000 students.

The new campus enjoys convenient transportation in a natural, tranquil environment. The buildings are practical in use and modern in style. The architecture accommodates requirements of teaching, research and management, and conveys notions of energy conservation and eco-friendliness.

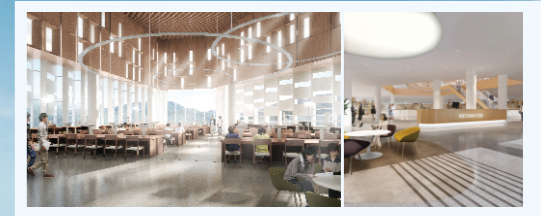
Scan the code and you can have a view of the future of SUSTech.



MUSIC VIDEO



SUSTech Hall



Community Center



College of Sciences



College of Engineering



Business School



School of Medicine

CAMPUS LIFE

AT SUSTech

STUDENT CLUB ACTIVITIES

Students at SUSTech organized many clubs such as the Literature Club, Hip Hop Club, Reading Club, Sit-Com Society, Guitar Club, Calligraphy Society and Voice-Dubbing Society. Through extra-curricular activities, students from different programs and disciplines interact with each other and share living and learning experiences.

Currently, there are **116** clubs and societies.

18

Academic skills



76

Art and sports



5

Innovation and entrepreneurship



6

Volunteer social work



11

Others





ACADEMIC CULTURE

SUSTech students communicate face to face with Nobel laureates, experts and scholars, and attend seminars, lectures and forums, which are frequently organized on campus.

SUSTech strongly advocates the interaction between theory and practice and support undergraduates' participation in research.

830

Lectures (2.3 per day)



50

High-level forums and academic conferences (one per week)



80+

Academicians/Fellows (seven per month) shared their research findings



4

Nobel laureates (one per quarter) visited SUSTech



SPORTS

SUSTech is an exciting and vibrant place with its athletic culture and numerous sports facilities.

DINING

SOCIAL ACTIVITIES

As a pioneer and innovator in China's higher education, SUSTech encourages students to develop independence and sense of responsibility through various social service activities.





EXPLORE OUR
**ACADEMIC
 RESOURCES**

NO.	DEPARTMENT	PROGRAM
1	Mathematics	Pure and Applied Mathematics
		Statistics
		Financial Mathematics
2	Physics	Physics
		Applied Physics
3	Chemistry	Chemistry
4	Earth and Space Sciences	
5	Biology	Biological Sciences
		Biotechnology
		Bioinformatics
6	Electrical and Electronic Engineering	Communication Engineering
		Microelectronics Science and Engineering
		Opto-electronic Information Science and Engineering
		Information Engineering
7	Materials Science and Engineering	Materials Science and Engineering
8	School of Environmental Science and Engineering	Environmental Science and Engineering
		Hydrology and Water Resources Engineering
9	Ocean Science and Engineering	
10	Mechanics and Aerospace Engineering	Theoretical and Applied Mechanics
11	Mechanical and Energy Engineering	Mechanical Engineering
12	Computer Science and Engineering	Computer Science and Technology
13	Biomedical Engineering	Biomedical Engineering
14	Finance	Finance
		Financial Engineering

Department of Mathematics

The Department of Mathematics at SUSTech was founded in 2015 with a dual mission of creating a first-class research and education organization for mathematics and providing service courses in support of other academic departments at SUSTech. Research interests of our faculty members cover a broad array of areas including Pure Mathematics, Computational and Applied Mathematics, Probability and Statistics, and Financial Mathematics.

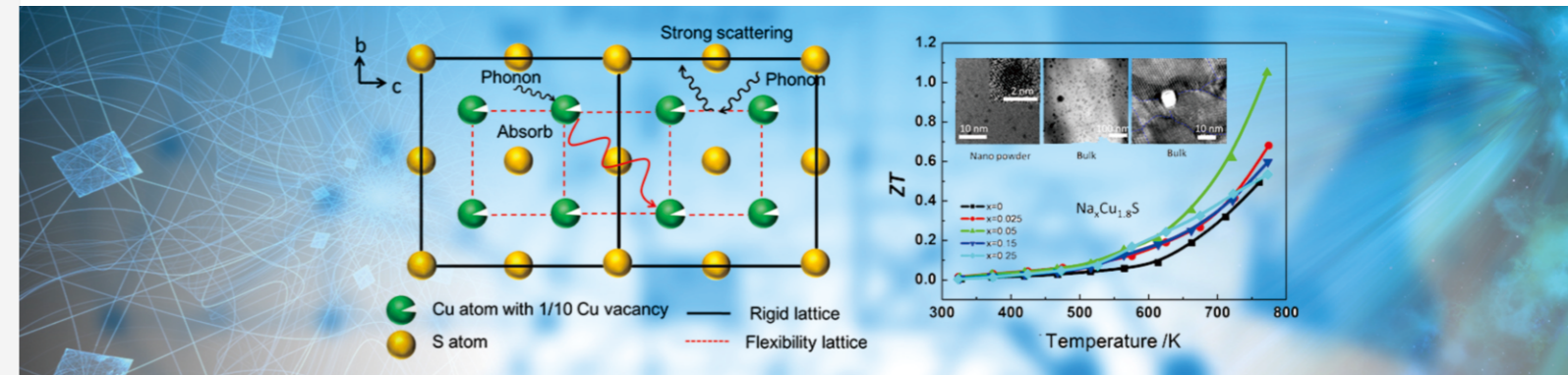
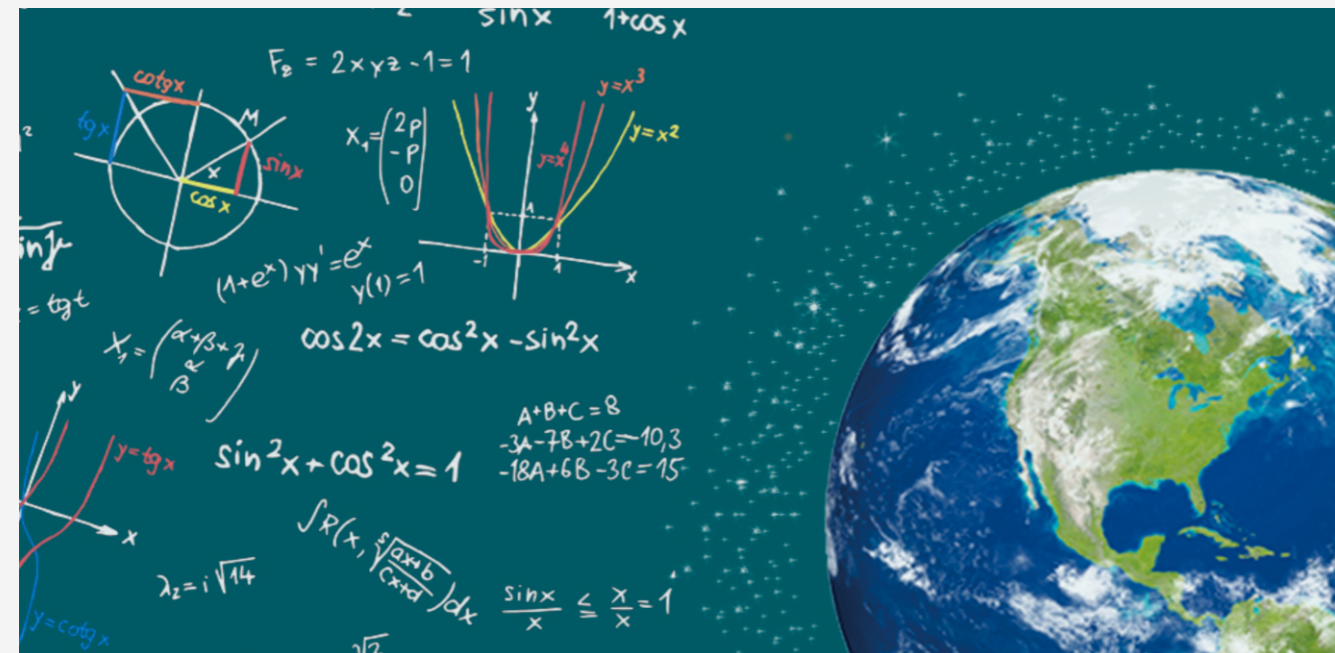
We have BSc programs in (1) Mathematics and Applied Mathematics, (2) Financial Mathematics and (3) Statistics. The BSc program in Mathematics and Applied Mathematics emphasizes mathematics foundation and mathematical problem solving skills. It prepares students for graduate studies in mathematics, computer science, information science, finance, economics and management science or math related jobs. The BSc program in Financial Mathematics aims to equip students with a solid math foundation and essential knowledge in finance and computing, and prepare them for jobs in the financial industry or graduate studies in financial mathematics. The BSc program in Statistics provides students with a solid mathematics foundation and essential knowledge for data collection, data modelling and data analysis. It prepares students for graduate studies in statistics and related areas. Students with a BSc degree in statistics can also find job opportunities in government agencies and private industries. All of our programs offer a wide range of courses on computing languages and computing methods, which are essential for graduate studies or job careers in the modern world.

We are also developing MSc and PhD programs, and already have joint graduate programs in place with several leading universities around the world. We also teach a wide range of service courses for engineering and sciences students at SUSTech.

Our department is young and vibrant. It is expected to grow rapidly over the coming years. We are actively recruiting new faculty members, postdocs, visitors and graduate students. We welcome outstanding individuals to join us in our exciting journey to becoming a first-class mathematics department.

34 Faculty members

- 5 Chair Professors
- 7 Professors
- 4 Recipients of Thousand Talents Program
- 2 Recipients of Thousand Young Talents Program
- 2 Changjiang Scholars



Department of Physics

The Department of Physics was established in 2011. We are devoted to providing first-class education and top-notch research in physics. We provide four-year undergraduate programs in physics. We also offer master's and doctoral programs in collaboration with renowned universities including Peking University, Harbin Institute of Technology, the University of Hong Kong, Hong Kong University of Science and Technology, National University of Singapore, etc. In addition, the Department has established long-term joint post-doctoral centers with Peking University, Fudan University, Wuhan University and other colleges and universities.

The Department of Physics now has four major research directions, i.e. condensed matter physics, theoretical physics, computational physics, and optics, while preparing to add biophysics, astrophysics, and particle physics. Faculty members are engaged in frontier research in the fields of quantum transport and control, surface physics, computational physics, condensed matter theory, quantum information and quantum computation, etc.

In recent years, the faculty members have published many papers in high profile journals, gaining international impact.

To meet new challenges and opportunities, the Department of Physics has been paving ways in subject development, faculty recruitment, student training, academic exchange, and international cooperation. The Department is also keen on helping its undergraduate students participate in research activities and research programs.

35 Faculty members

- 4 Chair Professors
- 4 Professors
- 2 Academicians of the Chinese Academy of Sciences (including dual-employed)
- 1 Changjiang Scholar
- 2 National Excellent Young Scholars
- 1 National Distinguished Teacher
- 2 Recipients of Thousand Talents Program
- 11 Recipients of Thousand Young Talents Program
- 1 Leading Talent of "Pearl River Talent Plan" of Guangdong Province
- 1 Excellent Young Scholar of Guangdong
- 1 National Leading Talent
- 1 Excellent Talent under High-level Talent of Shenzhen Program
- 2 Shenzhen Scholars
- 21 Awardees of "Shenzhen Talent Peacock Plan"



Department of Chemistry

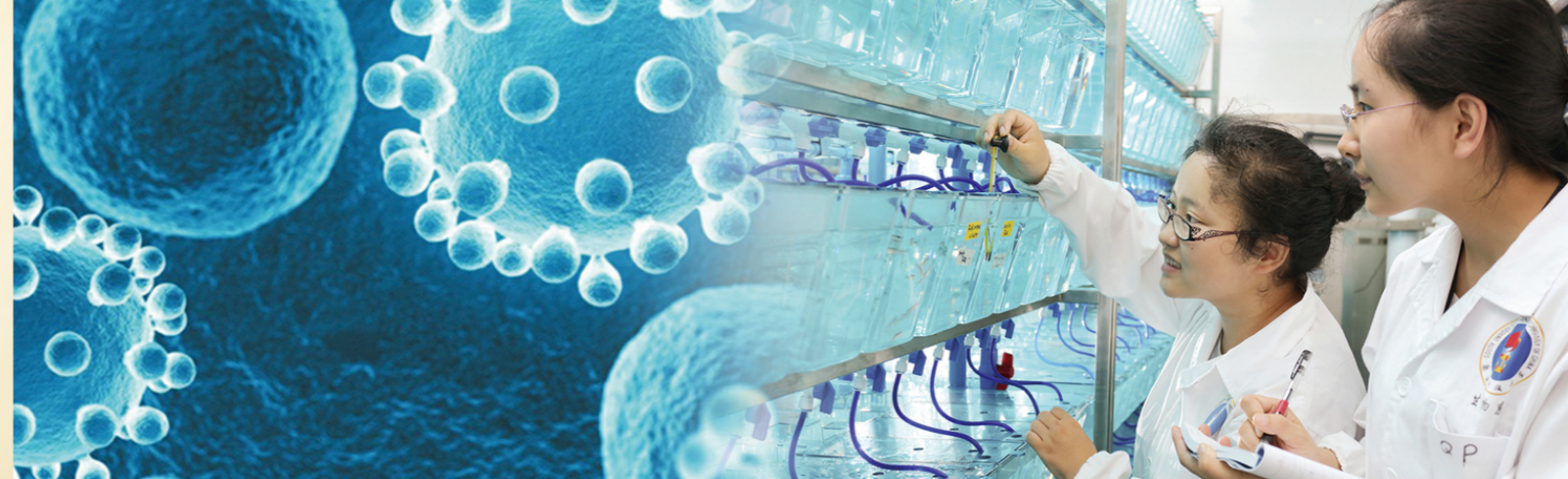
Chemistry is regarded as the center piece in sciences because of its role in different subjects and its importance in interdisciplinary research, such as in chemical biology, materials science, energy, agricultural development, drug discovery and so on. Established in 2011, the Department of Chemistry has developed at a rapid speed, and has now 26 full-time faculty members, and 9 engineers. The Department Chair is Professor Xumu Zhang, who was previously Distinguished Professor of Chemistry at Rutgers, The State University of New Jersey, and a full professor at Pennsylvania State University. He is the recipient of the Thousand Talents Program, the Outstanding Young Scientist (B), and the Changjiang Scholar Lecture Professor. The Department aims to be one of the best in China and has attracted many experts from all over the world, some of whom were already tenured full professors in the US or Japan before joining SUSTech.

In particular, the Department of Chemistry strives to gain internationally reputed achievements in research and to foster excellent scientists and engineers in the areas of inorganic chemistry, organic chemistry, bioanalytical chemistry, and physical chemistry/molecular materials chemistry.

Adhering to SUSTech's motto of "Research, Innovation and Entrepreneurship", the Department of Chemistry focuses on cultivating students' innovation, critical thinking and ability for interdisciplinary cooperation. The undergraduates at SUSTech are strongly encouraged to participate in various frontier research programs supervised by professors. The Department maintains a wide range of state-of-the-art lab instruments necessary for modern chemical research and teaching.

35 Faculty members

- 1** Foreign Fellow of the National Academy of Sciences
- 5** Recipients of Thousand Talents Program
- 1** Recipient of the Outstanding Youth Fund
- 12** Recipients of the Thousand Young Talents Program
- 19** Awardees of Shenzhen Talent Peacock Plan
- 40** Major research grants of more than **RMB 1 billion (or \$160 million)**
- 100+** Research papers have been published in prestigious chemistry journals, such as *Nature Communication*, *Chem. Soc. Rev.*, *J. Am. Chem. Soc.*, *Angew. Chem. Int. Ed.*, etc., some of which were highlighted in *Nature*, *Nature Chemistry*, or used as VIP cover papers.



Department of Biology

Welcome to the Department of Biology! Since its establishment in 2012, the Department of Biology has attracted internationally renowned professors to join as leaders and dozens of young scientists to start their independent academic career here in pursuit of excellence in research and teaching. The research interests of our faculty members include diverse topics, such as molecular and cellular biology, molecular pharmacology, bioinformatics, systems biology, quantitative biology, developmental biology, neuroscience, structural biology and biophysics. The primary goals of our faculty are to address the most significant and fundamental biological questions and to develop new strategies to treat various complex diseases. Such efforts will benefit from the embracement of interdisciplinary collaboration shared by all faculty members of different departments at SUSTech.

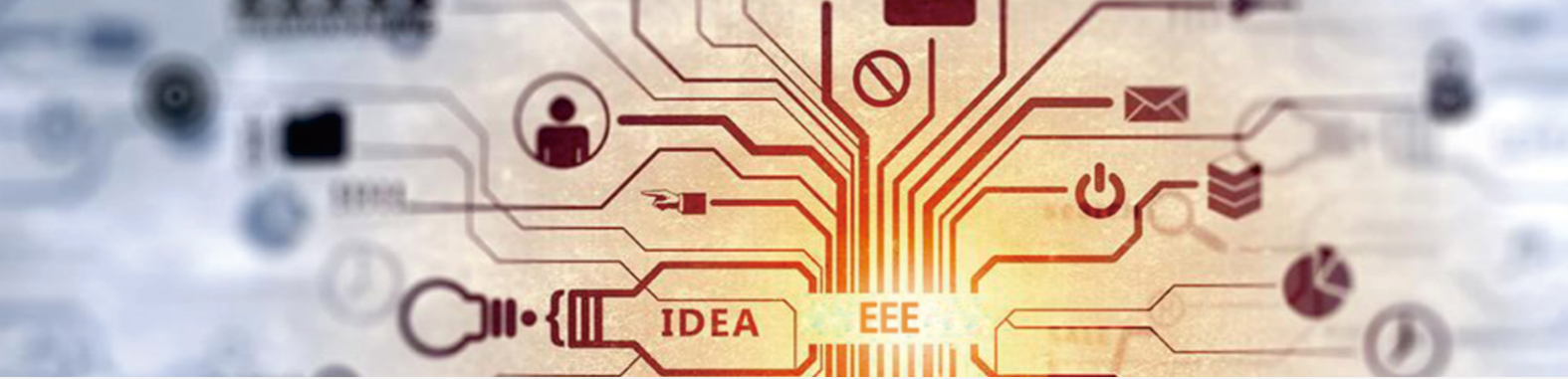
Mentoring the next generation biologists with the highest standards is one of the Department priorities. Our professors choose internationally acclaimed textbooks to teach core courses of Biological Sciences, Biotechnology and Bioinformatics in English. Undergraduates are encouraged to join the laboratory early to get firsthand working experience in basic and/or applied biological research, which helps them to consolidate the command of basic techniques, to broaden their knowledge horizons and to acquire the capabilities of problem identifying, hypothesis formulating and problem solving.

Life science, one of the fastest developing disciplines in natural sciences, has been the driving force behind the growth of the world economy, and provided the basis for the development of new technologies serving to improve the human health and welfare at large. With generous financial support from the Shenzhen Municipal Government, we are confident that the Department of Biology at SUSTech will grow into a globally-renowned research and teaching center.

40 Faculty members

- 2** National Academy of Sciences in the United States
- 5** Recipients of Thousand Talents Program
- 7** Recipients of Thousand Young Talents Program
- 4** Changjiang Scholars





Department of Electrical and Electronic Engineering

As one of the early departments established at SUSTech, the Department of Electrical and Electronic Engineering (SUSTECH-EEE) has achieved considerable development in recent years.

SUSTECH-EEE makes full use of its regional advantages, attends to industrial development trend and has research directions covering all fields of electronic information science and technology as well as new interdisciplinary fields such as energy, environment and biology.

SUSTECH-EEE runs a range of advanced research platforms, such as Shenzhen Key Laboratory (a key laboratory for third-generation semiconductor devices), Engineering Center funded by Development and Reform Commission of Shenzhen Municipality (an electromagnetic noninvasive medical detection engineering laboratory in Shenzhen), Shenzhen Peacock Team (a R&D team for ultra-wide frequency spectrum and ultra-strong THz wave), Nanshan Key Laboratory (a key laboratory under industry-education-research cooperation in radio frequency and microwave communication in Nanshan District).

SUSTECH-EEE offers three undergraduate programs, i.e. Microelectronics Science and Engineering, Optoelectronic Information Science and Engineering, and Communication Engineering. SUSTECH-EEE is under preparation for establishing two major research directions in electronic science and technology, and information and communication engineering. It has carried out the program for joint training of postgraduates and extensive academic exchanges with famous colleges and universities at home and abroad, such as Hong Kong University of Science and Technology, the University of Hong Kong, National University of Singapore, Temple University, the University of Queensland, etc.

Our graduates who want to go abroad for further study after graduation can obtain full scholarship from postgraduate schools of famous overseas universities, such as Nanyang Technological University and the University of London. Those who go for work after graduation are employed by the key departments of well-known enterprises at home and abroad, such as Huawei.

SUSTECH-EEE aims at building the world-class discipline of electronic and information engineering. The Department emphasizes teaching enlightened by scientific research and the close integration of innovation chain, talent chain and industry chain. It is dedicated to addressing the major challenges faced by the human society, becoming the pacesetter in electronic information technologies and cultivating excellent talents with global vision, down to earth attitude and entrepreneurial spirit.

23 Faculty members

Hold overseas doctoral degree

Worked or studied at the world top 100 universities

7 Recipients of Thousand Young Talents Program

3 Winners of Guangdong Natural Science Funds for Distinguished Young Scholars

3 Top talents of Technical Innovation of Guangdong Special Support Program

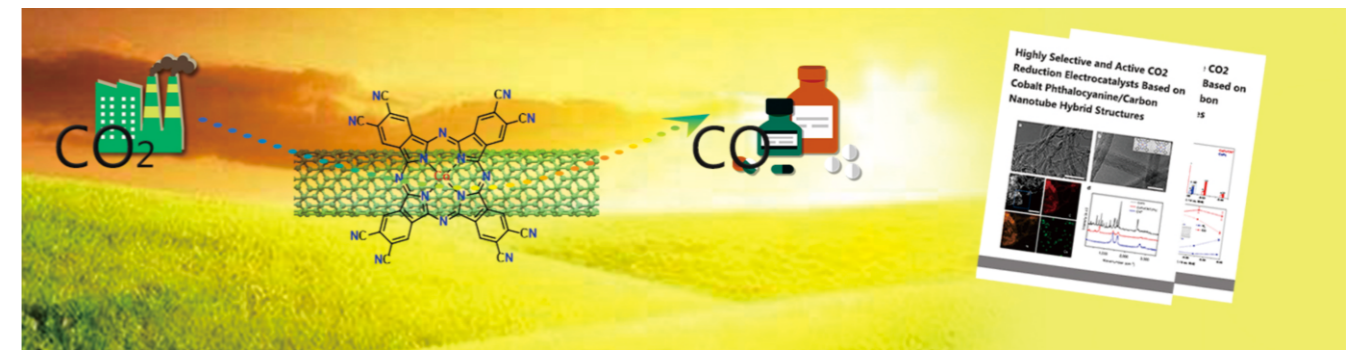
2 Distinguished Professors of Shenzhen Scholars Program

5 Fellows of important international associations

50+ Approved scientific research projects totaling nearly RMB 50 million

450+ High-quality papers including over 230 papers listed in SCI

Won the first prize for State Technological Invention Award by Ministry of Education with its achievements in scientific research



Department of Materials Science and Engineering

The Department of Materials Science and Engineering was founded in July 2013. Materials Science and Engineering (MSE) is a multidisciplinary subject that systematically studies a variety of materials, and emphasizes on the relationships between processing, structure, property, and performance. In modern society, MSE has become an important component for economic development, national defense, and daily life. The MSE program at SUSTech aims to equip students with knowledge, methods and tools of this field for engaging in the frontier research and development of materials. In addition to knowledge education, the MSE program also cultivates students' innovation, team work, and leadership skills.

The MSE Department at SUSTech engages in a broad scope of advanced materials research, including energy materials, organic and inorganic electronics, sensors and actuators, biomaterials, polymer composites, nanomaterials, micro- and nanofabrication, as well as additive manufacturing. The development of the Department addresses three areas: the frontiers of materials research; the national strategic development plan in materials area; and the research and development needs of the local industries in the Pearl River Delta and Shenzhen Municipality. The Department strives to achieve a leading role in both knowledge discovery and technology transfer. The Department has established 18 research labs, four of which are Shenzhen key laboratories. In addition, the Department's two research teams have been selected as Shenzhen Overseas High-Caliber Team.

22 Faculty members

5 Recipients of Recruitment Program of Global Experts

6 Recipients of Recruitment Program of Global Experts (Young Scholar Program)



Department of Finance

The Department of Finance is one of the first five departments that SUSTech founded in 2011. Our department aims to build a strong research and education organization with both domestic and international recognition. Our department adheres to SUSTech's motto of "Research, Innovation and Entrepreneurship". Through our research work, we strive to contribute to the national strategic plans and the regional development in the Pearl River Delta and Shenzhen. The research projects undertaken by the Department in Chinese financial stability and Fin-tech are all driven by the important issues in today's economy. Our department is committed to educating students of the most up-to-date financial knowledge, critical thinking, entrepreneurship, and global vision so that they are ready to solve practical and challenging problems in China's finance and economy.

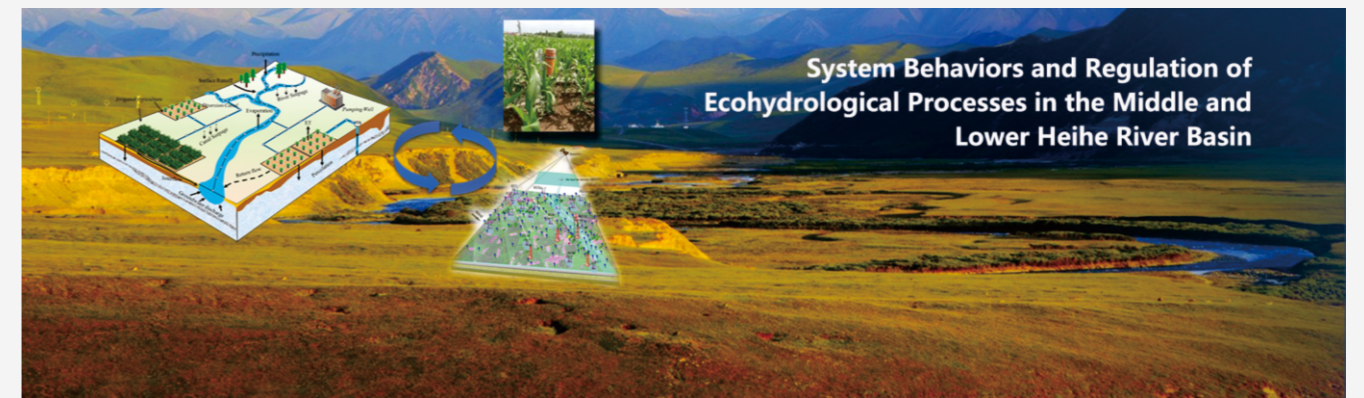
Our faculty published over 50 papers in 2015. Some of these papers were strongly recommended by *China Finance*. "The financial crisis and government bailout" authored by Professor Jia He was published in the 65th Anniversary volume of *China Finance*. "The logic of Financial Regulation and Innovation in China" authored by Professor Jia He was published as the cover article in *China Finance* (2016 18th edition). Our department regularly organizes academic seminars, which feature renowned speakers from well-known institutions and financial companies. A state-of-the-art finance laboratory is available for students to use, which is currently equipped with virtual

exchanges, high-frequency databases, financial modeling dynamic simulation systems, a laboratory management platform, a large-screen management system, a multi-screen GTA integrated financial information system, MATLAB, etc.

Our department has graduated its first class. Some of our graduates have begun their careers in financial industry, such as Minsen Capital Management. Some of them are pursuing advanced studies in Finance, including PhDs in universities such as the University of Pittsburgh.

14 Faculty members

- 1 Changjiang Scholar
 - 1 Pengcheng Scholar
 - 1 Shenzhen Leading Talent
 - 12 Academic members hold doctoral degrees from highly reputable overseas universities
- Most of them have experience in financial industries or financial supervision experience in regulatory institutions.



School of Environmental Science and Engineering

China's well-documented environmental problems are major roadblocks to the healthy and sustainable development of the country. Concern over China's environmental quality has reached a tipping point that can no longer be ignored. Against this background, the School of Environmental Science and Engineering was established by the Southern University of Science and Technology in 2015 to advance the scientific understanding of global environmental problems and to develop innovative engineering approaches to environmental protection and restoration in China and beyond.

The School is currently comprised of five academic units: Water Science and Technology, Soil Science and Remediation, Atmospheric Environment, Industrial Ecology, and Global Environmental Change and Management. The School is recruiting an outstanding faculty nationally and globally.

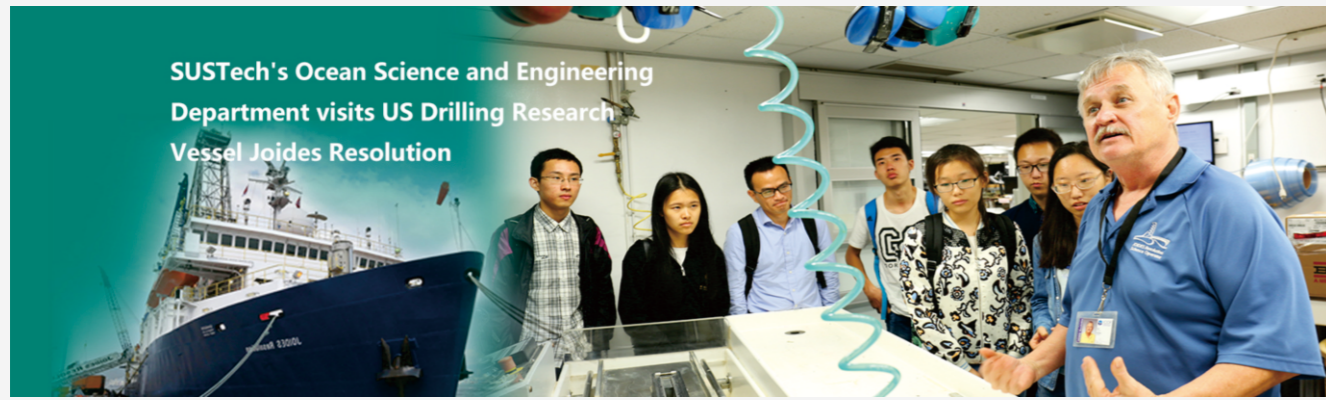
The School has established two undergraduate majors in Environmental Science and Engineering and Hydrology and Water Resources Engineering. The current research fields cover a wide range, including water resources, water quality, soil and groundwater remediation, water treatment, desalination, environmental health science, atmospheric chemistry, air pollution control, greenhouse gas emission reduction, solid waste disposal and utilization, earth system modeling, ecosystem assessment, carbon cycle, remote sensing, and global change.

The medium-and long-term objectives of the School are to become:

1. an innovative training ground for top talents in the field of environmental science and engineering in China;
2. a global center of excellence for environmental science and engineering research;
3. a national platform for translating innovative and advanced environmental protection technologies into practice;
4. a think tank that influences policy makers and educates the general public toward sustainable socio-economic development of China.

Faculty members

- 1 Academician of Chinese Academy of Sciences
- 1 Fellow of the Royal Academy of Engineering (UK)
- 5 Recipients of Thousand Talents Program
- 2 Outstanding Young Investigator
- 2 Excellent Young Investigator Awardees by the National Natural Science Foundation of China
- 3 Recipients of Thousand Young Talents Program



Department of Ocean Science and Engineering

The Department of Ocean Science and Engineering aims to build a world-class research and teaching program in oceanography. For the next five years, the department will focus on the development of programs in marine geophysics and geology, microbial oceanography and geomicrobiology, physical oceanography, and ocean engineering. Our top priority is recruiting world-class scientists into the faculty of the department.

The Chair of the Department is Professor Yongshun John Chen (PhD. 1989, Princeton University), who is a “Changjiang Scholar” and recipient of the “National Outstanding Young Scientist”. Professor Chen is well known internationally in the mid-ocean ridge research community and served as the chair for the InterRidge Program between 2013 and 2015. All faculty members have either study or working experience abroad and are able to use fluent English in teaching.

Building upon the platform provided by the Institute of Ocean Engineering of Shenzhen, the Department of Ocean Science and Engineering will soon become an oceanographic institution equipped with a research vessel (R/V Shenzhen), a dock, and a multidisciplinary laboratory of ocean engineering, which will allow us to catch up with the world-leading institutions of oceanography. The Department will serve the government strategic plan for “deep sea exploration”, and contribute to the development of Shenzhen as an International Ocean Centric City.

10 Faculty members

- 1 Changjiang Scholar
- 2 Recipients of Thousand Talents Program
- 2 Recipients of National Outstanding Young Scientists
- 1 Recipient of Ten Thousands Talents Program



Department of Mechanics and Aerospace Engineering

Founded in December 2015, the Department of Mechanics and Aerospace Engineering (MAE) is one of the eight departments in the College of Engineering. It aims to establish a world-leading department in mechanics and aerospace engineering, covering various research areas such as fluid mechanics, aerodynamics, thermodynamics, aeroacoustics, mechanics, combustion, material, and system control. The Department will learn from the best practice of peer departments over the world in order to develop into an international research institution that attends to the national strategic needs in mechanics and aerospace, cultivates outstanding innovative talents, and conducts frontier fundamental research and applied research with social impact. The goal of the Department is to become a top-tier international leader through introducing an innovative education system which emphasizes IUR (Industry-University-Research) in close association with the Chinese aerospace industry. The specific objectives are: 1) to nurture innovative talents (learning); 2) to research and develop key technologies (research); and 3) to provide technical services (production) for the national aerospace industry.

The MAE Department has attracted a team of high-caliber experts worldwide with diversified background in both academia and industry. So far, the department has 21 faculty members, including one Academician of the Chinese Academy of Sciences, one Academician of the Chinese Academy of Engineering, one Fellow with dual-fellowship in Royal Society

of Canada and Canadian Academy of Engineering, 5 recipients of the Thousand Talents Program, and 4 recipients of the Thousand Young Talents Program. All faculty members have extensive experience of studying and working overseas, and have successfully secured research funds of RMB 86 million in total. The MAE Department started to enroll undergraduate and postgraduate students in fall 2016, and has 32 undergraduates and 25 postgraduates (Master and PhD) at present. The Department has a bachelor's degree program in theoretical and applied mechanics.

21 Faculty members

- 1 CAS academician
- 1 CAE academician
- 1 Fellow of the Royal Society of Canada and Canadian Academy of Engineering
- 5 Recipients of Thousand Talents Program
- 4 Recipients of Thousand Young Talents Program

Department of Mechanical and Energy Engineering

The Department of Mechanical and Energy Engineering (MEE) was established in January 2016. There are 13 tenured/tenure-tracked professors and 50 research scientists and engineers. All of the professors in MEE have working experience at world-famous universities and research centers. At present, MEE is hiring high-level professors and scientists from all over the world. By the end of 2018, the number of professors is expected to reach 24.

The research scopes in MEE are based on five key laboratories (intelligent manufacturing laboratory, forming and additive manufacturing laboratory, precision machining engineering laboratory, robotics and automation laboratory, energy engineering laboratory). MEE achieved rapid development in the past year. A faculty body for excellent teaching and research has been preliminarily established. In the next five years, MEE will concentrate on becoming a world-class research and teaching department. MEE has established the Shenzhen Key Laboratory for Additive Manufacturing of High-performance Materials. Up to now, there are 15 approved research projects, which are granted by the National Natural Science Foundation of China, Pearl River Talents Plan, and Shenzhen Talent Peacock Plan. The overall research funds exceed RMB 100 million.

The mission of MEE is to educate students with comprehensive scientific skills, innovative spirits and global perspectives. The students are cultivated to solve scientific problems and engineering challenges, by applying theories and methodologies in the area of mechanical engineering and the relevant disciplines. The first class for bachelor degree will graduate in 2018. The number of undergraduate students enrolled has reached 35. There are eight doctoral students and 37 master students, six of whom are jointly educated by SUSTech and world-famous international universities. Meanwhile, students in MEE have opportunities to study abroad as exchange students to the U.S., Canada, U.K., Japan, and Singapore.

Faculty members

6 Recipients of Thousand Talents Program

1 Changjiang Scholar



Department of Computer Science and Engineering

The Department of Computer Science and Engineering was established in February 2016, and is one of the youngest departments at SUSTech. We offer BSc, MSc, and PhD degree education in Computer Science and Engineering.

All faculty members have doctoral degrees and have had many years' teaching and research experiences in leading overseas universities before joining the Department. The Department is supported by six teaching fellows, seven teaching and technical support staff members (such as laboratory engineers and teaching assistants), and seven professional secretaries. The Department is expected to grow aggressively to 50 tenure-track professors in the next three years and sets itself an ambitious goal of becoming an internationally known and research-intensive department.

The five research directions in the Department include artificial intelligence, data science, autonomous and cognitive systems, computer systems and networks, and theoretical computer science. The research topics cover machine learning, computational intelligence, cognitive robotics, big data analytics and cloud computing, internet of things, future intelligent wireless network, smart cognitive sensing, mobile and wearable wireless sensor/actuator systems, service computing, network security, cryptography, intelligent pervasive computing, etc.

Faculty members

5 Chair Professors (**2** Recipients of Thousand Talents Program, **3** IEEE fellows and **1** IET fellow)

1 Professor

2 Associate Professors

5 Assistant Professors



Department of Biomedical Engineering

The Department of Biomedical Engineering (BME) was established in June 2016, when Professor Xiangdong Guo from Columbia University, the Founding Chair, was appointed as Senior Advisor.

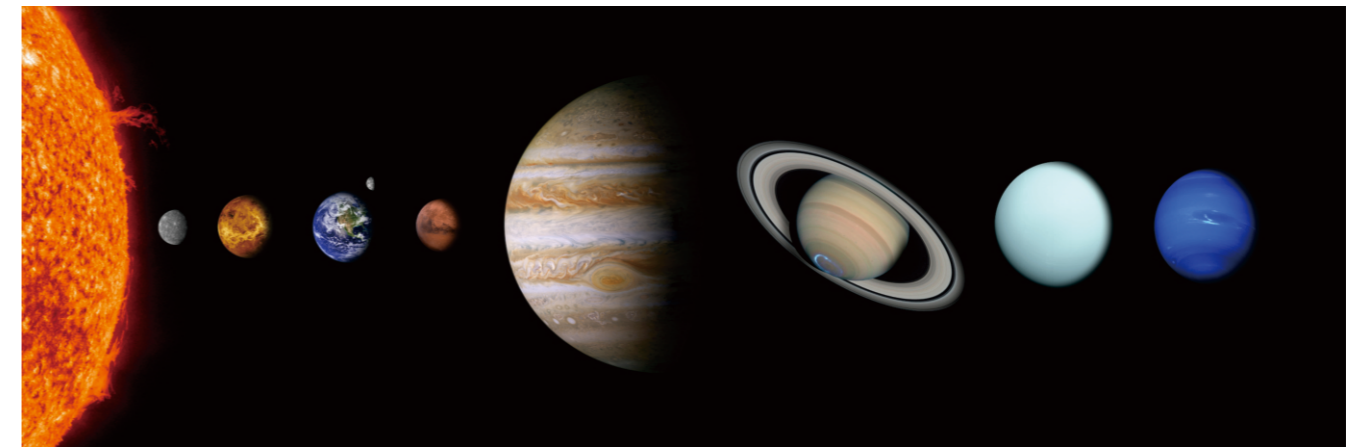
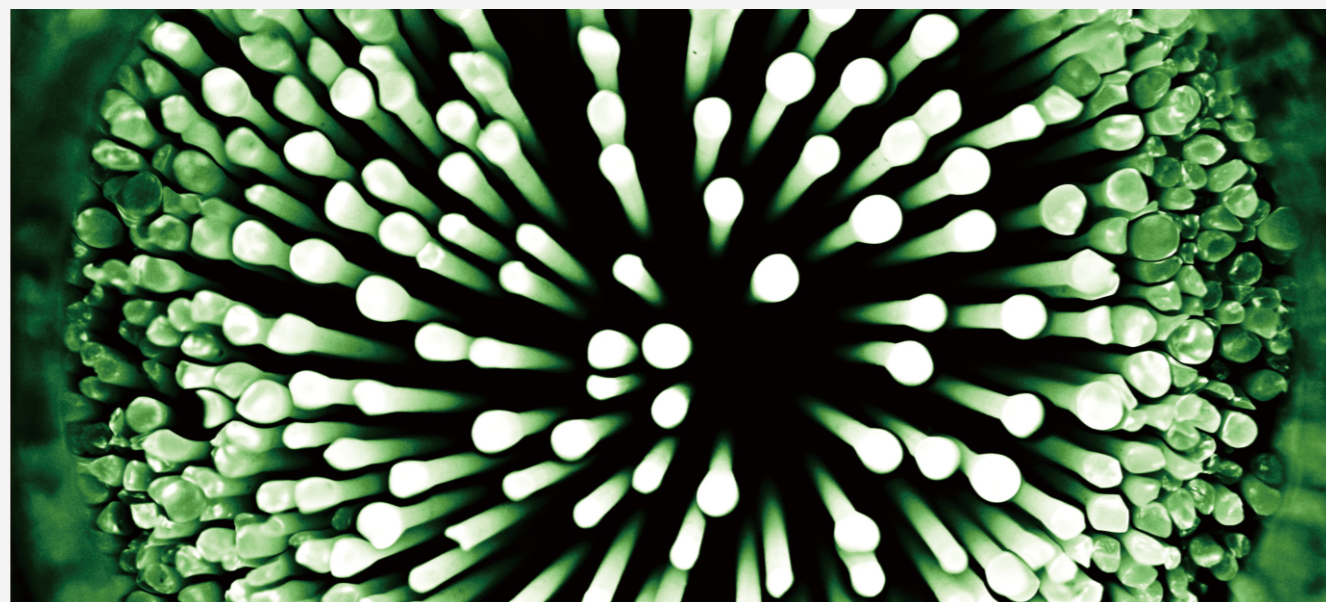
The Department has four teaching laboratories and 30 undergraduate students. Research areas at the Department include mechano medicine, multiscale/multimodal biomedical imaging, wearable devices and wireless monitoring, denovo regenerative engineering, computational medicine for big data and health informatics.

SUSTech BME receives strong support from the BME at Columbia University and has formed its own undergraduate curricula based on the BME curricula of Columbia University. The Department shall cultivate students at bachelor, master and PhD levels in collaboration with the BME at Columbia University.

The Department's core culture is "Adventurous, Arduous, Amiable". We sincerely welcome more global talents to join us to create an interdisciplinary innovative research platform, and make the platform a world-class biomedical engineering program within ten years.

Faculty members

- 1 Recipient of Thousand Talents Program
- 3 Recipients of Thousand Young Talents Program



Department of Earth and Space Sciences

The Department of Earth and Space Sciences (ESS) at SUSTech was established in December 2016. Professor Xiaofei Chen, a renowned seismologist and an academician of Chinese Academy of Sciences (CAS), was appointed as the founding departmental head. The studies in ESS concern the physics of the Earth, geo-space and planets in outer space. Aiming at building up a world-leading program of research and education in earth and space sciences, we conduct research that would advance our understanding about the complex natural system of earth and space, in order to provide science-based solutions to many of the societal challenges of our time: natural hazards, natural energy resources, space exploration, etc. In the meantime, our department offers rigorous training and hands-on learning opportunities to students and prepares them to be future leaders in academia, government and industry.

ESS encompasses a wide range of scientific disciplines: geophysics, space physics, satellite geodesy and planetary science.

We welcome more talents to join us and work together to build a world-class research and education center for earth and space sciences.

Faculty members

- 1 CAS academician
- 1 Changjiang Scholar
- 1 Recipient of National Science Fund for Distinguished Young Scholars
- 2 Recipients of Thousand Young Talents Program

DISCOVER

OUR CITY: SHENZHEN

Shenzhen was designated in 1980 as the first Special Economic Zone (SEZ) to implement China's open-door policy and modernization strategy. As an important high-tech and manufacturing hub in South China, Shenzhen is one of the most economically invigorating cities in China and among the fastest growing cities in the world. Shenzhen is a pioneer city where dreams come true.

A LEADING INNOVATION CITY

30,000+

Technology companies

17

Companies with over
RMB 10 billion (\$1.45 b) of sales

157

Companies with over
RMB 1 billion (\$144.9 m) of sales

1,203

Companies with over
RMB 0.1 billion (\$14.5 m) of sales

- No. 1 Chinese city in comprehensive economic competitiveness (Chinese Academy of Social Sciences, 2017)
- R&D investment took up 4.2% (\$12 billion) of its GDP in 2016, going side by side with that of Israel and South Korea
- Frontier areas of innovation include biology, Internet development, new energy, new material, cultural and creative industries and new-generation information technology
- 20,000 PCT patent applications in 2016, accounting for nearly half of that of all cities in China



“Shenzhen is the city that most resembles the Silicon Valley.”

—Business Week (2014)



AN EMERGING GLOBAL CITY

No.23

World's metropolitan economy (2015)

12.2 million

International visitors (2015)

\$6.7 billion

FDI (2016)

No.3

World's largest container port (2015)

82

International Friendship Cities

26,579

Foreign residents (2015)

\$377 billion

Imports and exports (2016)



- Home to China's leading corporations in the Fortune 500, e.g. Huawei, Tencent and Ping An Insurance
- Nurturing emerging giant enterprises of global impact, e.g. BYD Auto, BGI Genomics, DJI-Innovation



Tencent 腾讯

mindray 迈瑞

