



上海科技大学
ShanghaiTech University



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ShanghaiTech University



ShanghaiTech Global

EXPLORE
ShanghaiTech

April 2025



Small-scale
High-standard
International

Overview

ShanghaiTech University aspires to be a small-scale, high-standard, international university oriented towards research and innovation. Jointly founded by the Shanghai Municipal People's Government and Chinese Academy of Sciences (CAS), ShanghaiTech is committed to nurturing the next generation of innovative scientists, inventors, and entrepreneurs.

With the backing and support of the two co-founding institutions, ShanghaiTech is dedicated to tackling the challenges that China and the world are facing in the fields of artificial intelligence, biological engineering, data science, electrical engineering, energy, environment, human health, and materials.

Founded **2013**



Milestones

ShanghaiTech was selected as one of the World-Class Project universities.

February
2022

The first 207 undergraduate students matriculated.

September
2014

The Shanghai Municipal People's Government and the CAS jointly discussed a new initiative for cooperative education.

July
2003

September
2023

ShanghaiTech hosted its 10th Anniversary Ceremony.

August
2016

The campus of ShanghaiTech based in Zhangjiang was officially commissioned.

September
2013

The Ministry of Education approved the application for the **founding** of ShanghaiTech University.

Starting point

years at
a glance

Education

Blending practice and discovery

ShanghaiTech College

ShanghaiTech College serves as a central pillar of undergraduate education, partnering with academic schools to foster well-rounded student growth. It adopts a comprehensive mentorship system, guided by professors across all four years. Three distinct colleges house all undergraduates, each offering a dedicated space for close student-faculty interaction in sports, cultural activities, career development, and innovation practice. Through this “whole-person” education model, every student can carve out a personalized path to thrive.

3 colleges

Shangdao
Kedao
Dadao

240 mentoring groups across three colleges

3 diverse mentors per group from different schools

Social engagement

Before year two, all undergraduates explore diverse regions on summer research trips, applying knowledge to underserved or historic regions in China.



Industrial engagement

During the summer before year three, all undergraduates engage in visits to companies and innovation parks, exploring market demands and the link between research and practical application.

Innovation engagement

ShanghaiTech provides resources to boost students' innovation and entrepreneurial skills through hands-on practice, interdisciplinary exploration, and innovative projects.



Undergraduate education

ShanghaiTech's small scale offers undergraduates exceptional research opportunities, setting it apart from most Chinese universities.

100% of undergraduates have access to lab research opportunities.



Graduate education

Building on its robust academically oriented programs, ShanghaiTech is actively advancing professionally oriented graduate education including Master of Engineering and Doctor of Engineering, to cultivate cutting-edge talent aligned with national strategic needs.

Key features

- Rotation system for exploration and robust research training
- Interdisciplinary AI-integrated courses
- Vibrant, open academic atmosphere
- Comprehensive multi-tiered mentorship

Academics

6 schools 5 institutes 4 centers 3 colleges 1 hospital



offer

12 undergraduate programs

- Chemistry
- Materials Science and Engineering
- Physics
- Biological Science
- Biotechnology
- Computer Science and Technology
- Electronic and Information Technology
- Management Science
- Industrial Design
- Biomedical Engineering
- Mathematics and Applied Mathematics
- Foreign Languages and Foreign History

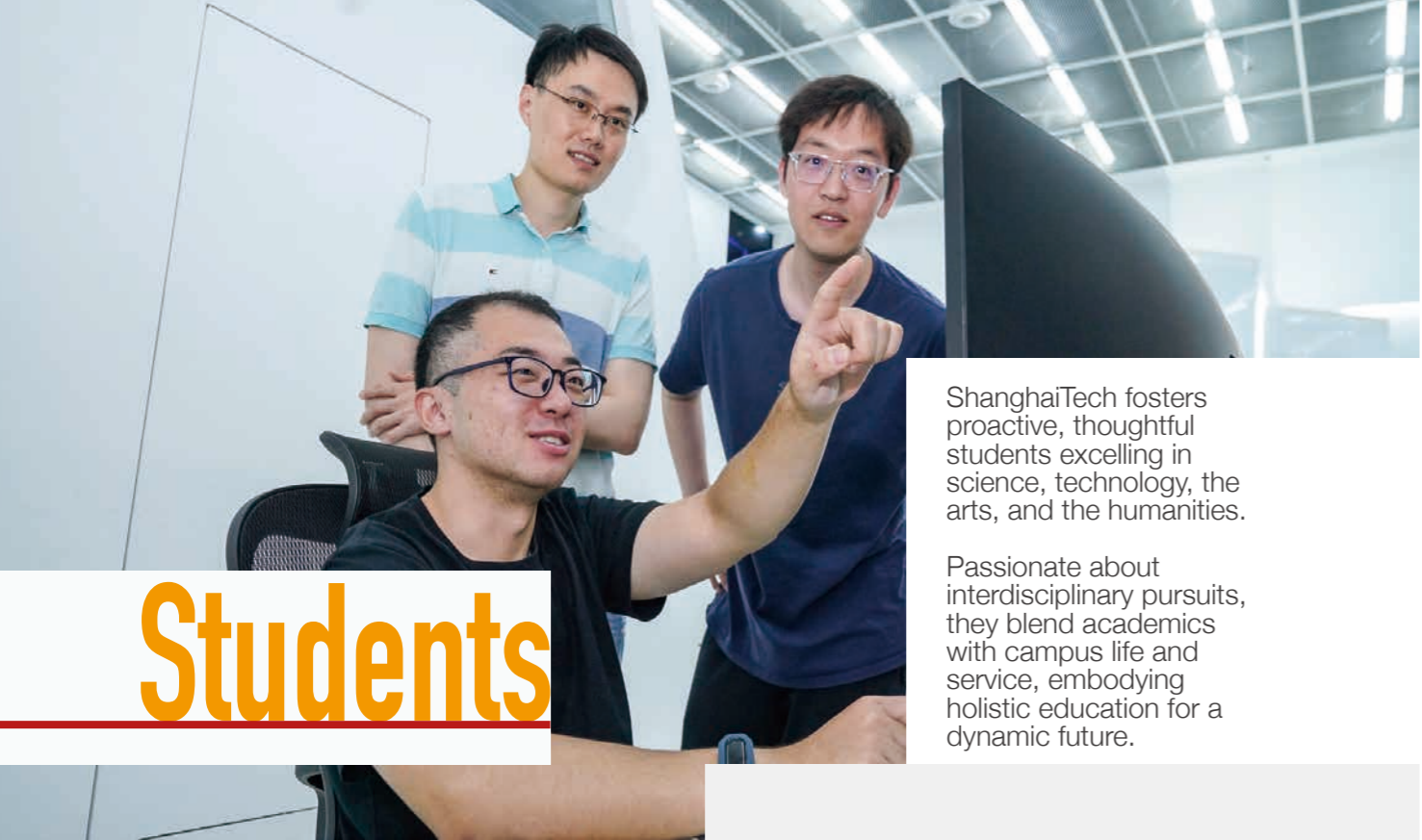
plus⁺⁺ more

14 master's degree programs

- Chemistry
- Materials and Chemical Engineering
- Materials Science and Engineering
- Physics
- Biology
- Biology and Medicine

9 doctoral degree programs

- Computer Science and Technology
- Electronic Information
- Electronic Science and Technology
- Information and Communication Engineering
- Digital Economy
- Mechanical Engineering
- Biomedical Engineering
- Mathematics



Students

ShanghaiTech fosters proactive, thoughtful students excelling in science, technology, the arts, and the humanities.

Passionate about interdisciplinary pursuits, they blend academics with campus life and service, embodying holistic education for a dynamic future.

Class of 2028

510 students enrolled in **12** programs
18 provinces represented
63% are from outside Shanghai

6,568

students on campus

30 provinces represented

30% are female students



80%

of textbooks are globally recognized, equipping students with an international perspective.

Our students shine in classrooms and beyond, actively engaging in lab research, academic competitions, international conferences, global design exhibitions, and major sports events.

They also make their mark in tech startups, reflecting a vibrant blend of innovation and excellence from contests to global stages.

5:1 student to faculty ratio

A low ratio allows for quality interactions between undergraduates and professors.

1,979 undergraduates

30.1%

2,891 master's students

44%

1,698 doctoral students

25.9%



Nobel laureates are regularly on campus, and students eagerly engage with them to broaden their global research horizons.

Meet



Academic star

Zhang Ying MS '23, a 2023 PhD student at SPST, won the National Scholarship as a master's student in 2022 and PhD student in 2024. She published first-author papers in top chemistry journals, *Angewandte Chemie* and *Green Chemistry*.

stars



Design trailblazers

Five undergraduates from SCA earned the prestigious 2024 Red Dot Award, a testament to their unique design perspectives and inventive thinking. Their work highlights the depth and originality of the university's education in industrial and innovative design, blending creativity with cutting-edge exploration.

Global innovators

ShanghaiTech's undergraduate team, "ShanghaiTech_China," won a gold medal at the 2024 iGEM global finals, their eighth since 2016, showcasing relentless innovation. In 2021, several members leveraged their project to found a startup focusing on biomaterials. The founder's inclusion in the list of Hurun China Under25s 2024 features their trailblazing spirit.



our

Startup pioneers

Wu Di '19, MS '23 and his team built a lab from scratch as undergraduates, creating a world-leading face-scanning device. With ShanghaiTech's IP authorization, they founded Deemos, focusing on generative 3D technology, raising tens of millions in USD.



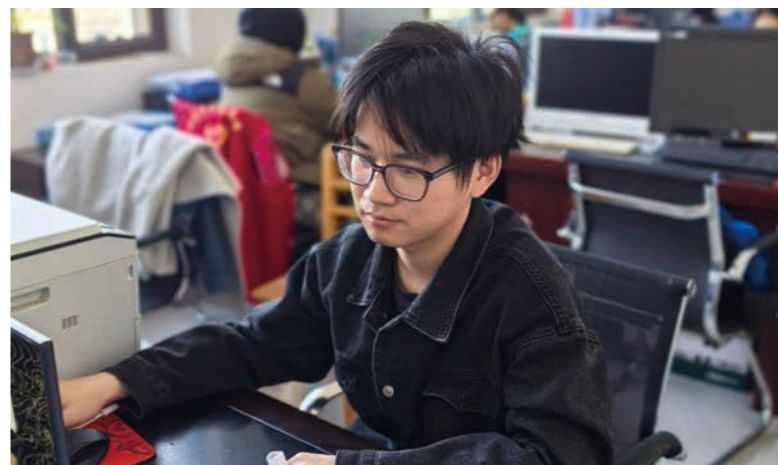
Rowing champions

The 26-member ShanghaiTech Boat Club, in its fourth year of competing, rowed to glory at the 2024 Head of Shanghai River Regatta, seizing gold in the Mix8+ 500 m City Sprint and 4.2 km Chase, and outpacing a field of traditional rowing powerhouses from top universities.



Service leader

Hu Chengtao MS '24, a graduate from SLST, chose to serve as a civil servant in southern Xinjiang, contributing to regional development and exemplifying ShanghaiTech's dedication to national service.



“

What we study is beyond languages and history.

”

ShanghaiTech is dedicated to cultivating well-rounded talent, blending rigorous scientific inquiry with a deep understanding of human culture and global perspectives. To fulfill this commitment, the university took a bold step in 2024 by welcoming its inaugural cohort of two undergraduates in Foreign Languages and Foreign History.

These trailblazers reflect the program's unique vision.



Ma Yueyang '28

This program trains us to be tech-literate humanities generalists, not traditional specialists.

The curriculum is very broad, allowing me to think more deeply about my future research field choices, which is great for a lower-year undergraduate.

We tackle 100 pages of English novels weekly!

We also explore Chinese humanities, blending history of science and technology, general history of China, and philosophy to study Taoism.

I focused on physics and chemistry in high school. I also loved history, and this program integrates my interests, letting me minor in mathematics for a perfect humanities-tech mix.

This program offers small-class teaching and personalized training.



Zhu Mingxuan '28

Graduate statistics

Top 5 among Chinese universities in the rate of undergraduates continuing to graduate study for the last 5 consecutive years.

Since ShanghaiTech welcomed its first graduates in 2016, over 5,700 have emerged by 2024, shaping a dynamic alumni network.

Many thrive in Zhangjiang's high-tech industries, driving innovation at the forefront of science and technology. Others pursue research in top academic institutions, with some securing faculty positions at leading global universities. Meanwhile, entrepreneurial pioneers seize market opportunities, transforming bold ideas into early action and redefining possibilities.



Details about 2024 graduates

In **2024**, ShanghaiTech graduates achieved excellent outcomes.

The pursuit of further studies among undergraduates reached a new high, with one in four choosing to study overseas across **10** countries.

Among master's graduates, **70%** entered the workforce, primarily in corporate roles.

Doctoral graduates showed a strong inclination toward academic research, with **67%** pursuing postdoctoral research or joining research institutions.

1,147 students graduated in **2024**

34.3% bachelor's graduates **46.5%** master's graduates **19.2%** doctoral graduates

44.1% start their careers

33.7% pursue further studies domestically

15.9% pursue further studies overseas

6.3% are waiting for further decisions

5,737 overall graduates from **2016**

40.6% bachelor's graduates **41.9%** master's graduates **17.5%** doctoral graduates

80% pursue further studies

77.9% start their careers

61.9% start their careers

28.8% domestically

51.2% overseas

9.9% pursue further studies domestically

8.4% pursue further studies overseas

28.2% pursue postdoc research domestically

9.2% pursue postdoc research overseas

ShanghaiTech saw its first master's graduates in 2016 and its first bachelor's and doctoral graduates in 2018.

Faculty and staff

1,590

total faculty and staff

259

adjunct professors

1,331

full-time faculty and staff

359

27% full-time professors

320

24% academic support staff

255

19.2% administrative staff

239

18% dedicated research staff

127

9.5% postdoctoral researchers

31

2.3% teaching faculty

ShanghaiTech's dedicated faculty and staff include world-class scholars, efficient administrative professionals, and talented support staff, all united in advancing innovation and excellence in education.

The university has adopted a university-wide tenure-track system for full-time professors, attracting exceptional talent from around the world with diverse expertise and extensive experience.

Both full-time and adjunct professors are deeply committed to delivering outstanding teaching, advancing cutting-edge research, and enriching campus life through dedicated service.

The selection and evaluation of our professors are based on:

- Professional integrity
- Teaching excellence
- Scholarship
- Service
- International recognition



Luo Zhenge
Dean of the SLST
Chair Professor

He was awarded the title of "Outstanding Educator in the National Education System" in 2024.

ShanghaiTech introduced the Chair Professorship in 2024, encouraging professors to excel in teaching.

Facts of our professors

- 10% are tenured professors
- 26% are tenured associate professors
- 2% are tenure-track professors
- 5% are tenure-track associate professors
- 57% are tenure-track assistant professors

- 58.3% are under 40
- 83.4% have overseas study, working or teaching experience over 5 years
- 13.6% are foreign nationals



“

ShanghaiTech leverages its proximity to cutting-edge scientific facilities, offering me a unique platform to pursue my research ambitions. The university strongly supports collaborative learning and training for students and young researchers, while actively promoting international cooperation through these advanced facilities.

Liu ZhiVice Provost
Director of the CTS

”

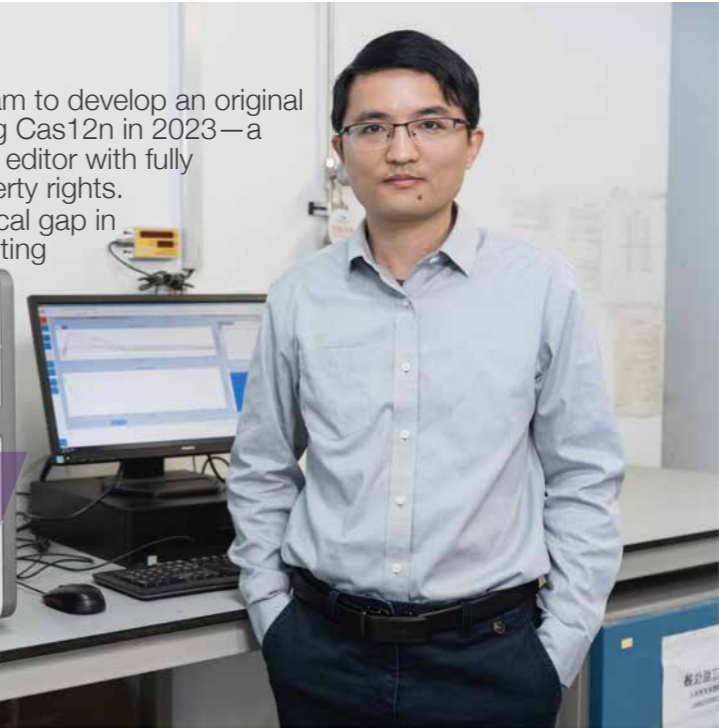
“

At ShanghaiTech, I led my team to develop an original gene-editing system, unveiling Cas12n in 2023—a highly precise, compact gene editor with fully independent intellectual property rights. This breakthrough filled a critical gap in China’s foundational gene-editing technology.

”

Ji Quanjiang

Associate Professor at SPST



“

At ShanghaiTech, I harness artificial intelligence to accelerate new drug development, a pursuit that has earned me consecutive rankings among Stanford/Elsevier-Top 2% Scientists worldwide. Over my five years here, I’ve mentored eight students, all of whom have secured exceptional career paths.

”

**Bai Fang**Assistant Professor
at the SLSL, Research
Professor at the SIAIS,
Distinguished Adjunct
Professor at the SIST

“

In my six years at ShanghaiTech, I have shaped a robust financial system to support teaching and research at the SCA. By streamlining administration, I have boosted efficiency and cut costs, earning me ‘Outstanding Employee’ recognition several times.

”

Wang Zhizhong

Administrative Manager at the SCA





“

Shanghai is a city with a vibrant, diverse culture much like New York where I grew up. Teaching humanities at ShanghaiTech's newly established Institute of Humanities is incredibly exciting for me. In this innovative tech-focused university, the intersection of science and humanities sparks fresh ideas and possibilities.

”

Zainab Mahmood

Assistant Professor at the IH

“

At ShanghaiTech, my research centers on neuromorphic engineering—an innovative field that designs computing systems inspired by the human brain's workings. Here, we are encouraged to, and always feel free to challenge old paradigms and explore new topics that only a few have seen before. This kind of bold research attracts me, and it's also what draws me to this university.

”

Xavier Lagorce

Assistant Professor at the SIST



Since its founding in 2013, ShanghaiTech has become a global hub for education and innovation, fostering an international community through student exchanges, faculty research collaborations, and summer research programs. Its exchange programs, including a “3+1” program, a summer course program, and a summer research program, connect undergraduates with top universities.

ShanghaiTech also welcomes global students to conduct hands-on research on campus through summer lab program for international students.

In 2024 alone, over **230** undergraduates embarked on international exchanges across **10** countries.

Over the past decade, **52%** undergraduates have participated in international exchanges—spanning both short-term and long-term opportunities.

ShanghaiTech provides over **30** programs for students and faculty in exchanges and research collaborations.

Global Engagement



ShanghaiTech's global footprint

This map showcases ShanghaiTech's global network of collaboration, connecting with world-leading universities and research institutes across continents.

ShanghaiTech's diverse portfolio includes a undergraduate "3+1" program, summer programs for undergraduates, a fast-track master's admission program, a first-year doctoral scholarship program, and pioneering initiatives in the construction of our hard X-ray free-electron laser facility and a low-carbon campus.

These initiatives underscore the university's dedication to nurturing global talent, advancing scientific discovery, and bridging cultures through education and innovation.

- Ars Electronica
- École Nationale Supérieure de Chimie de Montpellier
- German Cancer Research Center
- Grenoble INP – UGA
- Interuniversity Microelectronics Centre
- Leiden University Medical Center
- Shell
- Springer Nature
- University of Oxford
- University of Padua

Europe

10 cooperation institutions

Asia and Middle East

4 cooperation institutions

- Hebrew University of Jerusalem
- Hong Kong University of Science and Technology
- New Energy and Industrial Technology Development Organization
- Osaka University

North America

15 cooperation institutions

- Babson College
- Columbia University
- Cornell University
- Duke University
- Drexel University
- Harvard University
- Johns Hopkins University
- Philadelphia Orchestra
- University of California, Berkeley
- University of Chicago
- University of Illinois Urbana Champaign
- University of Michigan
- University of Pennsylvania
- University of Wisconsin–Madison
- Yale University

Note: Only institutions outside the Chinese Mainland are listed



Research

At ShanghaiTech, schools, institutes, and centers unite in dynamic collaboration, driving interdisciplinary research across physics, biotechnology, information science, technology entrepreneurship, mathematics, and the humanities.

Cutting-edge labs and major scientific facilities nearby fuel advancements in robotics, novel materials, and beyond, addressing global industry needs.

By fostering synergy among diverse disciplines, our researchers transform bold ideas into practical innovations, shaping sustainable, technology-driven prospects.

100+

papers in *Cell*, *Nature*, and *Science* having ShanghaiTech as primary affiliation

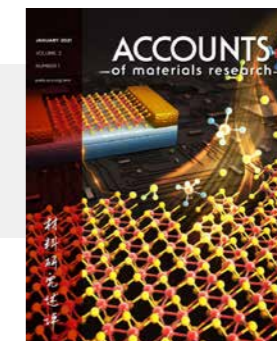
6 China's top 10 advances in life sciences

2 China's top 10 scientific advances

2 China's annual major medical advances

1 First prize of Shanghai Natural Science Award

ShanghaiTech advances scientific publishing, partnering with ACS to launch *Accounts of Materials Research* in 2020 and *Photon Science* in 2024, boosting global impact in materials and photonics.



Key research priorities

- Advancing new materials and device innovation
- Tackling major developmental biology challenges
- Pioneering catalysis strategies with new models
- Harnessing large scientific facilities for interdisciplinary innovation

Research areas

- Biology and medicine
- Chemistry
- Computer science
- Creative design
- Data science
- History and culture
- Information engineering
- Innovation management
- Materials science
- Mathematics
- Photonics
- Physics

40+ research divisions
10+ research platforms



Hard XFEL facility

SHINE —
Shanghai High
repetition-rate XFEL
and Extreme light facility

As the lead institution for the SHINE project, ShanghaiTech advances global photon science. This world-class facility equips researchers with cutting-edge tools for high-resolution imaging and ultrafast dynamics, fostering breakthroughs across physics, chemistry, biology, materials, and energy sciences.

The largest research
infrastructure China
has ever approved

Surrounding large-scale
scientific facilities

within **2** km

Shanghai Synchrotron
Radiation Facility

Soft XFEL facility

Live Cell Imaging Facility

Superintense Ultrafast
Laser Facility

National Facility for
Protein Science Shanghai

3,110 m total length
29 m burial depth
8 GeV superconducting linear accelerator
10 experiment stations

A leading university

Innovation

ShanghaiTech fuels innovation by transforming research into societal impact. Through the efforts of SEM, Office of Technology Transfer, and seed funding, it builds a sustainable ecosystem, empowering faculty and students to bridge innovation and practice, advancing global commercialization.

The university has incubated 57 startups since 2016, spanning biomedicine, medical devices, integrated circuits, IT, new energy, and materials. Many have secured venture capital and earning widespread market recognition for innovative products.

Patent conversion rate is

20.3%

2,038 total patents filed

610 | **30%** patents filed through PCT

640 | **31.4%** patents granted

57 spinoffs since 2016

86% are related to IT and biomed

82% are located in Shanghai

24% are founded by students

\$250M+ early-stage spinoff funding since 2016

techIES

Open hub for innovation and collaborations

Since 2018, the Innovation and Entrepreneurship Summit (techIES) fosters technical exchange and financing, building a vibrant entrepreneurial ecosystem that bridges academia and industry to spur economic growth and global collaboration.

ShanghaiTech also promotes science popularization, engaging students and the public with accessible knowledge. At each techIES, awards are made to celebrate science communicators, fostering public engagement with science.

The first-place teams win a \$7,000 prize and strong potential for venture capital investment.



6 summits since 2018

1600 participants

400+ projects

100+ investment institutions each year

100 startup lectures and roadshow events

Featured innovation



Founded in 2020 by Prof. Chen Jia from SLST, Correctseq pioneered the world's first clinical base editing therapy for thalassemia, treating a total number of 19 patients, with its first domestic patient in January 2024 and first overseas patient in July. Chen's team won the third prize in techIES 2019.

Founded in 2021 by Prof. Zhang Yuebiao from SPST, MOFenergy pioneered porous material energy storage for renewable gases, achieving early industrialization and delivering smart energy solutions. Led by Zhang's PhD student Jiang Wentao '19, a 2024 National Scholarship winner, it won the first prize in techIES 2023.



Founded in 2019 by Prof. Cang Yong from SLST, Degron Therapeutics forged a partnership with Takeda in 2024 to develop first-in-class molecular glue therapies for oncology, neuroscience, and inflammation. Degron will receive an upfront payment and potential milestone payments totaling up to \$1.2 billion. Cang's team won the second prize in techIES 2019.

Founded in 2022 by SIST PhD student Zhang Jiakai '20, Cellverse uses AI to advance protein design and drug discovery, transforming research into productivity. Its CryoFormer algorithm maps dynamic proteins, accelerating global drug development.



Founded in 2021 by Prof. Ye Chaofeng from SIST, Finesense pioneered a first-in-its-kind magnetoresistive sensor system for detecting defects in critical industrial equipment, ensuring safety and achieving millions in revenue in its first year of 2024. Ye's team won the first prize in techIES 2022.

What's next?



A research hospital and a medical school

Shanghai Clinical Research and Trial Center

Affiliated with ShanghaiTech University, the center is a pioneering **research-oriented hospital** integrating clinical care, education, and innovation. The hospital focuses on severe diseases, driving evidence-based practice and value-based research.

By uniting clinical applications and research, it accelerates the translation of findings into advanced patient care. The hospital also fosters collaborative research through partnerships with top hospitals, research institutions, and industries, creating an open hub with cutting-edge facilities for investigators to innovate and advance healthcare.

Focusing on

- tumor
- neurological diseases
- pan-vascular diseases
- respiratory system diseases
- rheumatic, immune and musculoskeletal diseases
- sensory system diseases

2021 hospital established
2022 construction launched
2026 trial operation begins

136,895 m² floor area
500 beds
300 research beds
200 clinical beds

Key features

- Disease-centered multidisciplinary care
- Research driven by clinical needs
- Innovative research and therapies
- Advanced general medicine and wellness
- Enhanced outpatient care system
- AI-powered healthcare analytics

Next, ShanghaiTech will establish its medical school, utilizing the hospital's resources and facilities to train leading medical professionals.

