

## SPOTLIGHT ON SHANGHAI

# Pearl of innovation

Already a global financial powerhouse, Shanghai has set its sights on becoming a leader in innovation.

*"There is a great biomedical R&D ecosystem in Shanghai."*

*Li Chen, CEO of Hua Medicine*

**AT THE** mouth of Yangtze River and midway along the Chinese eastern coast lies Shanghai, an important and historical trading centre. But in a country where cities have 1000-year histories, Shanghai is relatively young, officially earning city status in 1927. Today, with a population of more than 24 million and a total gross domestic product exceeding 2160 billion Yuan (US\$350 billion), Shanghai is undoubtedly the largest city in China. Nicknamed the "Oriental Pearl", Shanghai serves as the economic, financial, trade and shipping centre of China.

But Shanghai will not rest on its laurels and now aims to become a global innovation centre. When China's President XI Jiping visited Shanghai in May 2014, he said, "in today's world, technological innovation has become the key to improving overall national strength," and encouraged Shanghai to put innovation at the heart of its development strategy with a global perspective. Since



Shanghai Science Hall (Headquarters of Shanghai Association of Science and Technology).

August, the Shanghai municipal government has launched several initiatives to promote home-grown innovation, focusing on Shanghai's development strategy for 2015.

### Innovation collaboration

The Shanghai Institute for Materia Medica (SIMM), part of the Chinese Academy of Sciences, Shanghai Branch (CAS Shanghai), is instrumental in much collaboration between drug discovery and development companies. When Kaixian Chen of SIMM spoke at a local government-organised conference recently convened to discuss improving Shanghai's stakes as a global innovation centre, he criticized the drug-approval process in China as being too slow and called for more funding for basic research.

With this in mind, CAS Shanghai will increase the salaries of its researchers and look for opportunities to generate more collaborations among its many research institutes and biotech companies. One of Shanghai's most valuable assets in terms of innovation collaboration is the Zhangjiang Hi-tech Park, located in the Pudong District of

Shanghai. The park is designated as a "special economic zone", in which tax policies incentivise foreign investment and trade. More than 100,000 people are employed at Zhangjiang and it is home to many R&D centres for biomedical companies.

Many of Shanghai's more established research institutions, including Shanghai Jiao Tong University and Fudan University, are part of the push for innovation, as well as Shanghai Institutes for Biological Sciences of Chinese Academy of Sciences—all leading research institutions in China and abroad. ShanghaiTech University, founded in 2013 by CAS and Shanghai Municipal Government, will also contribute and take in the first batch of undergraduate students in Fall 2015.

### Pharma Valley

"There is a great biomedical R&D ecosystem in Shanghai," says Li Chen, the CEO of Hua Medicine. One of these ecosystems is an area of Zhangjiang Hi-Tech Park dubbed "Zhangjiang Pharma Valley". It comprises more than 400 biomedical companies, leading public research institutions,



hospitals, contract research organizations (CRO), medical device companies, pharmaceutical companies (including Roche, Eli Lilly, Novartis and GlaxoSmithKline) and government regulating agencies, in close enough proximity to promote convenient collaboration.

Cory Williams, Head of Clinical Trial Management at the Pfizer China R&D Center, spoke of the company's collaborations with Shanghai public institutions, such as Fudan University and the CAS. He hopes joined-up thinking "will foster more innovative medicine development, addressing the specific needs of Chinese patients.

And like the multinational pharma firms in Shanghai, Medtronic, one of the world's largest medical device manufacturing companies, strives to meet some of these specific clinical needs in the Chinese market. "In China, surgeons tend to be highly specialized and often travel to perform surgeries outside of their office, for example in small villages," says Dr Zhengrong

Zhou, Director of Medtronic Shanghai Innovation Center. "So they need separate, portable surgical systems." Medtronic collaborates with CAS in materials research and collaborates with hospitals in Shanghai for clinical application of medical devices. Medtronic is also hiring more PhD-qualified scientists to work on various localized technology projects and to provide affordable pacemakers, one of Medtronic's key products, in conjunction with the company's strategic partner Life Tech. It is "keen to hire more fresh talent and provide rotation programmes for them," says Zhou.

The large number of pharmaceutical R&D centres in Shanghai also attracts many CROs. Quintiles, a global CRO servicing the biopharmaceutical industry with offices in 12 Chinese cities, recognized Shanghai as an important pharmaceutical hub for China, and established its regional headquarters there. The new 4000-square-meter headquarters is anticipated to accommodate more than 450 employees by

2017. "We recruit our seasoned talent globally and seek to recruit junior talents locally," Ling Zhen, General Manager for Quintiles Greater China. "We look for a strong academic background in our recruits. We also provide globally harmonized training to ensure the world-class quality of our offering because we understand clinical trial management is a young industry in China."

### The art of research and medicine

Shanghai has China's highest life expectancy (80 years for men and 85 years for women as of 2013) and one of the country's lowest infant mortality rates (0.6% as of 2013). These statistics reflect the city's expertise as a regional medical centre. Among its 300 medical institutions are some of China's top-tier teaching and research hospitals, Ruijin Hospital (affiliated with Shanghai Jiao Tong University), Huashan Hospital and Zhongshan hospital (affiliated with Fudan University).

But without basic research from institutions, or direct access to patients, it is impossible to translate biomedical research into innovation. Shanghai's many top-tier hospitals and public research institutions are essential for the city's ambitions.

Huashan and Zhongshan Hospitals are among the 11 hospitals affiliated with Fudan University, one of the oldest and most selective universities in the country. Huashan Hospital has a capacity of 1326 beds and around 1800 staff. Zhongshan hospital, established in 1936 in memory of China's first president, Dr Sun Yat-sen, is a major teaching hospital affiliated to the Ministry of Health of China, specializing in the diagnosis and treatment of cardiovascular diseases and liver cancer. Ruijin Hospital, the largest clinical teaching centre of School of Medicine of Shanghai Jiao Tong University, has 1774 beds and more than 3000 staff members.

Ruijin Hospital is a keen proponent for the latest technology to assist its patients and staff. It recently released a smartphone app that allows patients to make appointments and check their lab results. This year, an eminent surgeon, Dr. Yu Liang used Google Glass to record and broadcast



Pharma Valley Headquarters in Zhangjiang Hi-tech Park in the Pudong District of Shanghai

an orthopaedic operation he performed at the hospital. "Modern technology and wearable digital devices may revolutionize medical education," says Liang.

Besides providing an environment conducive to the use of new technology, Ruijin Hospital is streamlining its resources to further promote medical research and innovation in China by setting up a specific research centre, which opened this year. "We hope the Shanghai Research Center for Translational Medicine will bring results from basic research into actual medical products," says Dr Guang Ning, Ruijin's deputy director. "We want this centre to foster systematic medical research in Shanghai." Concentrating on metabolic disease, cardiovascular diseases and cancer, the centre will be co-managed by the Ministry of Education and the city of Shanghai. It will benefit from collaboration between Shanghai Jiaotong University, Fudan University, Tongji University and Shanghai Institutes of Biological Sciences of Chinese Academy of Science.

In 2013, 73.7 billion yuan (12 billion US dollars) were spent on research and development in Shanghai, 3.4% of the entire GDP.

It's a dynamic place with ambition to match and, for three consecutive years, has been rated as China's most attractive city for expats, according to a survey by news agency Xinhua. For those who want to join them, research opportunities abound. ■ *Nature editorial staff have no responsibility for content*

## Shanghai New York University (NYU Shanghai)

NYU Shanghai is a pioneering partnership between New York University and East China Normal University. Approving the independent venture, China's Ministry of Education described the NYU Shanghai project as "an exploration of possibility" for cooperation between a foreign institution and a Chinese university.

The university offers a liberal arts education, including at least one semester of studying away in other parts of NYU's global network, to a student body that will eventually reach 2,000. NYU Shanghai includes five research centres; the Center for Computational Chemistry, Institute of Brain and Cognitive Science, Institute for Social Development, Institute of Mathematical Sciences and Volatility Institute at NYU Shanghai, with proposed Institutes in Physics and for Data Science, Society, and Business.

The student population is fairly evenly divided between Chinese and foreign students and the university is striving to enlist the best teaching professors it can find. "We want to hire exceptional quality faculty," says NYU Shanghai chancellor, Lizhong Yu.

With faculty from Shanghai, New York City and universities around the world, Yu looks forward to many opportunities to come. His optimism is shared by the party chief of Shanghai, Zheng Han, who emphasized the municipal government's continued support when he visited the campus recently.

"I hope that NYU Shanghai will adhere to its original aspiration to build a world-class research university, exploring innovation, and cultivating and attracting more talent."

Emulating NYU Shanghai's example, there are more than twenty similarly cooperative institutions in the pipeline, all likely to attract international talent to the innovation boom.





## SHANGHAI CENTER FOR EDUCATIONAL HUMAN RESOURCE EXCHANGE

# Shanghai education: join us!

**S**hanghai Center for Educational Human Resource Exchange is a professional organization, which provides services in the development and exchange of educational human resources. Since its onset in 1995, the Center has made great progress in terms of 'informationization' and professional management, and level of service. It plays a key role in promoting the development of talent in the growth of Shanghai educational human resources, enhancing teaching quality and teacher qualifications in Shanghai. The Center provides the following services: the development of an educational platform for talent recruitment, the accreditation of teaching certificates in the Shanghai region, the assessment of teaching quality, teacher training in Shanghai and the establishment of an information database of teachers and talent in higher education.

The Information System and Database of Shanghai Senior Teaching Talent is one of the major projects of the Center. After years of efforts, the Center has a complete information system of higher education and talent in Shanghai colleges and universities, associated with the relevant systems of information collection, classification, and publication. In addition, the Center is also in charge of the official assessment of educational talent in Shanghai colleges and universities, such as the Chang Jiang Scholars program (appointed by the National Education Department), the Training of Hundreds of Thousands of Senior

Talents scheme (appointed by the National Human Resources and Social Security Department), the Training of Thousands of Senior Talents scheme (appointed by the Shanghai Municipality), the Leading Talent scheme (appointed by Shanghai Human Resources and Social Security) and The Oriental Scholars in Colleges and Universities scheme (appointed by Shanghai Educational Government).

The Center has built the [www.shehr.cn](http://www.shehr.cn) website as a platform for interactions among educational institutions, academics and university graduates. The website provides a series of services including online consultation, registration of services and career-planning advice. The Center is seeking an innovative way to bring overseas talent into Shanghai colleges and universities and to encourage academics at Shanghai tertiary institutions to participate in international collaborations and thereby enhancing the internationalization of higher education and the talent-recruitment system and increase the international competitiveness of local institutions. Moreover, the Center is currently building the [www.joinsh.cn](http://www.joinsh.cn) website to expand the internationalization and multi-dimensionality of Shanghai educational human resources. This website serves as a communication channel for job seekers and Shanghai tertiary institution and provides services to outstanding overseas Chinese who endeavor to serve their home country.

In addition, the Center undertakes relevant research projects on the Development of Shanghai Educational Human Resources in order to provide theoretical grounds for the decision-making processes of the Shanghai Department of Educational Administration and Policy.

The Center has a good reputation based on its reliable social credit, authoritative policies and information, rich database of job information and excellent service and approach. The Center will continue to build a multi-dimensional platform to promote the development and exchange of higher education resources and talent.

Address: No. 900 Yan'an West Road,  
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[www.shehr.cn](http://www.shehr.cn)

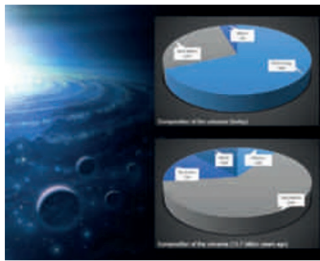
[www.joinsh.cn](http://www.joinsh.cn) will soon be put into work!



**Shanghai Center for Educational  
Human Resource Exchange**

[www.shehr.cn](http://www.shehr.cn)





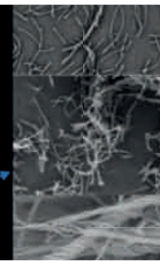
Dark matter detection



ROV's sea trial



Gut microbiota research



Erhai Lake treatment

## SHANGHAI JIAO TONG UNIVERSITY

# Exploring new horizons for human well-being

**K**eenly aware of its responsibility to transcend disciplinary boundaries, advance knowledge, and contribute to the culture, science, and civic life, Shanghai Jiao Tong University (SJTU), one of the oldest and most prestigious in China, is becoming a leading global university by engaging creative minds, nurturing innovations, and bridging the sciences and humanities to best serve the nation and the world.

SJTU is committed to establishing a multi-faceted innovative system that inspires and facilitates cultivation of creative talents, innovative-capacity building, and rich academic culture within the university. Fundamental reforms have been initiated on the modes of development, management, and governance, with the aim of including its faculty in all the important stages of decision-making. Located in one of the world's most vibrant cities, SJTU has prepared itself well to play a key role in the intellectual enrichment and economic prosperity of China, and has made great strides towards becoming a world leading innovation engine in exploring deep secrets of Life, our Planet, and the Universe.

## Exploring the secrets of universe

PandaX, the dark matter detection experiment led by Prof. Xiangdong Ji, is conducted at the world's deepest underground laboratory in Sichuan, China. PandaX aims to be the first ton-scale liquid-xenon experiment to detect the so far elusive dark matter in the universe. Starting in 2010, the experiment team has built a world-class detector and started to collect data early in 2014. The first batch of data examined and questioned the existence of low-mass dark matter observed in other experiments. The success of PandaX proves that China is taking a leading role in this scientific frontier.

## Exploring the deepest part of ocean

In 2009, SJTU developed "HAILONG", a deep-sea unmanned vehicle capable of operating at a depth of 3,500 meters, which has discovered a massive amount of sulfide ore in the South Atlantic. In February 2014, "HAIMA", China's first ROV capable of operating at a depth of 4,500 meters, underwent a successful trial in the South China Sea. Designed for deep-sea observation, sampling, and heavy-duty operations, it has been a landmark achievement in



The 2014 graduation ceremony at Minhang Campus

China after "JIAOLONG" (manned submersible) signified China's innovative capability to develop and utilize deep-sea Work-Class ROVs. It will be used to investigate the abyssal seafloor, sampling hydrothermal minerals, studying the genes of organisms and of extremophiles there, and inquiring into human origins, and so forth.

## Exploring the fundamentals of the human body

Professor Liping Zhao's team is one of the leading groups in the world in applying molecular and genomic tools for the understanding and predictive manipulation of complex microbial communities in the human gut. His work demonstrates that traditional Chinese medicine and medicinal foods can help control obesity or diabetes with gut microbiota as a drug target. This research opens new channels for managing the devastating epidemic of metabolic diseases in China and the world. This project aims at not only controlling diseases but also promoting healthy longevity for human as a creature of dignity.

## For harmony between man and nature

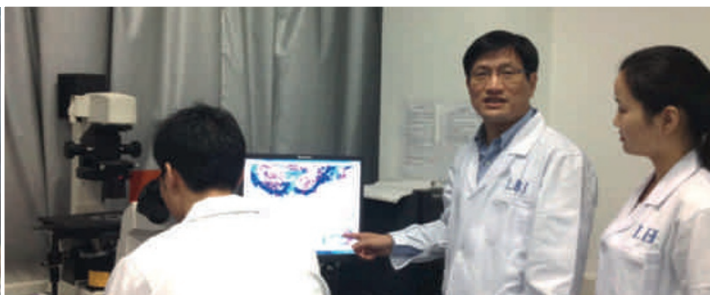
Shortage of clean fresh water is threatening daily life in a number of countries. Erhai Lake in Yunnan Province, the second largest highland lake in China, was once seriously polluted by cyanobacterial water blooms. In response, Professor Hainan Kong has launched a series of research and engineering works for sewage treatment, wetland restoration, and nonpoint pollution control. These new farming and protection methods have consequently brought in economic benefits, improved the quality of local life, and facilitated the follow-up treatments. As a strategic fresh water reserve and destination of more than 20 million tourists, Erhai is now one of the best-protected outskirt lakes in China.

The name of the university originates from "I Ching: Book of Changes" — one of the most revered and oldest philosophical classics on laws of the universe dated back to pre-Confucius time: *Jiao Tong* (交通) implies that communication of heaven and earth gives birth to the harmony of all things (天地交而万物通). SJTU is practicing that spirit with a legacy of pursuing excellence underpinned by institutional incentives.



<http://en.sjtu.edu.cn>





SHANGHAI JIAO TONG UNIVERSITY

## A new era of collaborative and cross-disciplinary life-science research

**"A** home of comfort and warmth, a headspring of innovation and start-ups, a place for pursuing dreams". This describes the Bio-X Institutes of Shanghai Jiao Tong University. Members working and learning at the Bio-X Institutes are fondly known as Bio-Xers. They hold the belief that "once committed, why not try our best?" and are creating a new chapter in the era of collaborative and cross-disciplinary life-science research.

The Bio-X Institutes of Shanghai Jiao Tong University was founded in 2005 by merging the Neuropsychiatric and Human Genetics Group (NHGG), which was established in 1996, and the Bio-X Life Science Research Institutes, which was established in 2000. The Bio-X Institutes is the first interdisciplinary institute in China and the second of its kind in the world after Stanford University. Since its establishment, the Institute has set out to conduct featured research programs, to shoulder the responsibility of advancing science and technology and to adhere to the highest standards of integrity in conducting research. It is believed that the basic requirements for great research are to comply with scientific principles, to exert imagination and to avoid the temptation of seeking quick success.

The current director of the Institutes is Professor Lin He, a fellow of the Chinese Academy of Sciences, and the honorary director is Professor Steven Chu, a Nobel Laureate in Physics. The Institutes consists of a number of core and satellite groups, led by dozens of distinguished scientists and professors from China and abroad. The Institutes also includes many highly-talented young scholars, research fellows, and post-graduates from various academic backgrounds, as well as a team of administrative and technology staff. After years of exploration and practice, the Institutes has finally set its own directions.

By taking advantage of interdisciplinary studies, the Institutes set its tenets as conducting intensive and distinguished research and actively participating in international competition.

In the director's greetings, Professor Lin He says "Based on the idea of 'The Great Biology' that all organisms are coded by four nucleotide bases, Bio-X Institutes promote interactions among various

disciplines in life sciences. Moreover, according to the traditional belief that life contains an 'Ecological Body' governed by rules shared by various non-life-science disciplines, the Institutes also interact with other non-life-science disciplines on campus or off campus."

"We put great emphasis on quality over quantity in research. By taking advantage of available opportunities in interdisciplinary studies, we are working intensively on research directions with distinctive features and are participating enthusiastically and actively in international collaborations. Our common goal is to apply science, technology and innovation to advance our research for the betterment of the entirety of mankind."

After years of exploration and practice, the Bio-X Institutes have united top interdisciplinary talents, including academicians of the Chinese Academy of Sciences, winners of the Thousand Talents Plan, outstanding young investigators, Changjiang scholars, and chief scientists of 973 or 863 programs. The following major research facilities have been set up: Diseases and Health, Nutrition and Health, Development and Reproduction, Brain Science and DNA Computing. The Bio-X Institutes has a Genetic Resource Center, International Collaborative Innovation Center and Translational Medicine Center (including affiliated hospital groups and co-operative workgroups of government, businesses, universities and researchers). In addition, the Bio-X Institutes boasts the largest bank of neuropsychiatric samples, a large-scale genetic data-analysis platform, a genome-wide association study (GWAS) platform, a HighSeq platform, a laboratory quality management system (LQ-MS), a transgenic mouse facility, a specific-pathogen-free (SPF) mouse facility, a behavioral test platform, confocal microscopes, microtomes and cryostats. With the rise of the Institutes' reputation, multiple demo laboratories were established in collaboration with international companies such as Illumina, Affymetrix, and Roche. Official collaboration agreements have been signed between the Bio-X Institutes and a number of famous overseas institutes.

In the past ten years, more than 200 students have graduated with master's or Ph.D degrees. In 2012, the Bio-X institutes received the highest rating in the



international evaluation for biological research and in the evaluation of all research institutes of Shanghai Jiao Tong University. With generous support provided by the university, the government, and industry, further growth is certain.

"The sea is wide enough for the fish to leap, the sky is spacious enough for the birds to fly". Nowadays, biology is at a flourishing stage of development, the era of personal heroism has faded and has been replaced by a new era of cross-disciplinary collaboration. Bio-Xers have defined their mission as decoding the puzzles of 'The Great Biology', view meeting the major national demands and challenges of human health as their duties, and participate actively in interdisciplinary research; Bio-Xers shoulder the responsibilities of performing world-class research, and are actively engaged in the efforts of State Key Laboratories. On this occasion, we invite scientific elites to join the Bio-X Institutes.

**Bio-X 研究院**  
INSTITUTES

Shanghai Jiao Tong University  
<http://en.sjtu.edu.cn>



## SHANGHAITECH UNIVERSITY

# ShanghaiTech University

**S**hanghaiTech University is a research establishment comprising five schools and two research institutes. The structure of our five schools emphasizes the cross-disciplinary and innovative nature of our research, approach to education and community service. We intend to leverage our location in the City of Shanghai, with the support of the Shanghai Municipal Government and the extraordinary resources of the Chinese Academy of Sciences (CAS).

The University is building a top-tier faculty of 1,000 professors including 500 tenured/tenure-track faculty (recruited globally) and 500 adjunct faculty recruited from CAS institutes, leading global companies and other prestigious universities. Among the current faculty (numbering 300), three are Nobel Laureates.

Our inaugural undergraduate class of 2013 has 207 members drawn from the nation's top high schools and our second cohort of graduate students (425) entered this fall. We have campuses in downtown Shanghai and Zhangjiang Hi-Tech Park (the Silicon Valley of China). ShanghaiTech is completing a state-of-the-art research infrastructure and has formed a network of research alliances with nearby facilities such as the CAS Shanghai Advanced Research Institute, the Shanghai Synchrotron Radiation Facility and the National Center for Protein Science Shanghai.

## School of Physical Science and Technology (SPST)

SPST aspires to become one of the national and international intellectual hubs for original research in materials, energy and the environment. SPST aims to tackle the most fundamental scientific questions in these disciplines and to become the intellectual property (IP) powerhouse for their technological applications. The School encourages academic freedom and innovation, original research, blue-sky ideas, cross-disciplinary collaboration and tech-transfer.

## School of Life Science and Technology (SLST)

SLST seeks scientific breakthroughs building on the competence of life-science research teams from CAS Shanghai and collaboration with the R&D centres of leading pharma-companies in Zhangjiang.

The education programmes and research topics are designed to address the prominent questions in the frontier fields of life science. The School advocates interdisciplinary approaches and emphasizes the integration of basic and applied research.

## School of Information Science and Technology (SIST)

SIST aims to educate and train future technology innovators, enterprise leaders, R&D specialists and entrepreneurs in information science and technology. It promotes both basic and applied research of the highest level by recruiting world-class scientists, by collaborating with world-leading institutions and hi-tech companies and by taking advantage of the vibrant regional economy. The School emphasizes the establishment of an innovative and personalized education system for undergraduate and postgraduate students.

## School of Entrepreneurship and Management (SEM)

SEM encourages and stimulates the innate curiosity of every student. It provides coursework fostering creativity, confidence and critical thinking through a curriculum specifically designed for science and technology students. The curriculum includes design thinking, arts, business, entrepreneurship and other cross-disciplinary courses, as well as providing intense hands-on experience in innovation and entrepreneurship. SEM is also the home of interdisciplinary research groups in areas such as the Future of Smart Cities and Learning Sciences. These research centres provide students from all of the other schools an opportunity to apply the basic research they learn in their majors to real-world challenges in Shanghai, China and beyond.

## Shanghai Institute for Advanced Immunochemical Studies (SIAIS)

SIAIS is dedicated to the understanding of the basic structure and design of biological molecules. Its nine labs cover all the capabilities that one needs to go from the discovery of an important antibody through all the steps necessary to turn it into a drug. SIAIS aims to enhance the capability of developing independent IP rights and commercialization of discovered antibodies.

## iHuman Institute

The iHuman Institute focuses exclusively on the basic and applied science of human cell signaling, integrating multiple tools for scientific discovery and bringing together leading researchers throughout the world. The Institute attracts researchers in chemical and cell biology, chemistry, antibody development, computational chemistry, imaging, structural biology, system biology and translational biology. Basic science is at the core of the iHuman Institute, with direct application to drug discovery.

We welcome people who embrace a similar vision and are intent to pursue academic excellence to join us. If you are interested in faculty positions, please see [www.shanghaitech.edu.cn](http://www.shanghaitech.edu.cn) or contact [hr@shanghaitech.edu.cn](mailto:hr@shanghaitech.edu.cn).



上海科技大学  
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SHANGHAI NORMAL UNIVERSITY

# Hello, and Welcome to Shanghai Normal University

**S**hanghai Normal University (SHNU) is one of the leading universities in China's largest city. It offers undergraduate and postgraduate courses as well as hosting cutting edge research in a wide range of disciplines across the humanities, social sciences, natural and applied sciences and engineering.

SHNU began life in 1954 as a teacher training college. Since then it has both merged with and taken over a variety of other institutions to become the broad ranging and high achieving university it is today. It is currently attended by 22,000 undergraduates, 5,000 postgraduates and 12,000 night school students in its 17 colleges and 104 research institutes.

Bachelor degrees are offered in 87 disciplines, with subjects covered as diverse as philosophy, economics, law, education, languages, literature, arts, journalism, advertising, history, sciences, civil engineering, food sciences, horticulture, public relations and hotel management. Postgraduate degrees are also available in a wide range of disciplines.

SHNU places great value on scientific research and has provided significant increases in funding for those engaging in it over recent years. Its particular strengths in the fields of the liberal arts, teacher training as well as comparative literature and world literature are widely recognized. It has also founded three E-research institutes in the fields of urban culture, computer science and comparative linguistics.

The university also strongly believes in the importance of international exchanges and collaboration. Already it has links with well over 200 universities and other educational institutions in more than 30 countries. Partner institutions include Harvard University in the US, Waseda University in Japan, the French National Academy of Science and the Brazilian National Academy of Science.

Every year more than 2,000 foreign students choose to study at SHNU, while our teachers visit and teach in universities across the world.

Whether people come from abroad as students, researchers, staff members or professors, their ideas, enthusiasm and suggestions are always welcomed and cherished. Those who come to teach, study and carry out research from overseas are given every

assistance to expand their horizons, enhance their intellectual capabilities, gain pragmatic knowledge and improve their language skills in the historic and bustling city of Shanghai.

As well as being open to foreign influences, SHNU has worked with overseas higher education institutions to help found Confucius Institutes in Japan, Botswana and the US, to promote the learning of Chinese language and culture abroad, improve Sino-foreign trading relations and economic development, and to build bridges of friendship, communication and understanding across continents.

SHNU is proud of its high quality academic staff of around 2,800 lecturers and researchers, including 1,700 full-time lecturers of whom more than 250 are professors and more than 560 are associate professors.

Despite broadening its horizons since its early days, SHNU continues to place great emphasis on the quality of its teacher training and is continually seeking to improve teaching standards. Its pedigree in the field is illustrating by the fact that almost 70% of primary and secondary school teachers and head-teachers in Shanghai are SHNU alumni.

The university boasts two campuses. Based in central Shanghai, Xuhui campus has a historic feel, while Fengxian is more modern. Three new air-conditioned dormitory buildings were opened on the Fengxian campus earlier this year. Together the two campuses occupy in the region of 400 acres.

Students and academics have access to two main libraries containing more than 3.3 million books, advanced laboratories and excellent sports facilities including basketball courts and gymnasium, badminton facilities, a bodybuilding room, and large aerobics and table tennis halls. There are also active music, singing, dancing and drama student groups. The SHNU International Arts Festival is held biannually. The two-storey International Students Centre provides those who come from abroad to study with special reading room, studying, gym, table tennis, snooker and a free internet service.

Attractions close to SHNU include the Longhua Temple, the oldest and largest temple in Shanghai, the traditional Chinese garden Guilin Park, the tomb

of Xu Guangqi, the scientist of the late Ming Dynasty, the Longhua Revolutionary Martyr's Cemetery, Shanghai Stadium and the Shanghai Insect Museum.

For recruitment, please visit <http://hr.shnu.edu.cn/Default.aspx?tabid=5850>. If you have any questions, please contact our human resources department by email ([renshi@shnu.edu.cn](mailto:renshi@shnu.edu.cn)) or call 86-21-64322685.



**Shanghai Normal University**  
[www.shnu.edu.cn/shnuen](http://www.shnu.edu.cn/shnuen)



## DONGHUA UNIVERSITY

## Supporting international talent

**D**onghua University, located in Shanghai, has been one of the key universities under the direct administration of the Ministry of Education since 1960, and is a member of Project 211. It has three campuses in Songjiang District and Changning District, with an area of nearly 2,000 acres. Donghua University was founded in 1951 as East China Textile College. In 1985, it changed its name to China Textile University, and to its present name, Donghua University in 1999. It is one of the first universities accredited by the Ministry of Education for granting the doctor, master and bachelor degrees.

Donghua University has developed into a distinctive multi-disciplinary university, with engineering as the predominant discipline alongside the coordinated development of engineering, science, management, and the liberal arts disciplines in the past 60 years. The university has 5 post-doctoral research stations, 7 first-grade authorized doctoral programmes, 24 first-grade authorized master programs, 6 categories of professional masters, 17 authorized master programmes of engineering and 56 majors for undergraduates in about 10 different disciplines. The university has 1 First-Grade National Key Discipline, 5 Second-Grade National Key Disciplines, 1 National Key (Cultivating) Discipline, 7 Shanghai Key Disciplines, 12 national and provincial or ministerial level scientific research bases, 2 bases of the Discipline Innovative Engineering Plan launched by the Ministry of Education and 1 National University Science Park. The university now has about 30,000 enrolled students, including about 15,000 undergraduates, 6,000 graduates, 5,000 continuing education diploma students, and 4,000 foreign students. The university boasts about 2,300 faculty and staff members. Among the 1,200 faculty members, there are 8 academicians in the Chinese Academy of Sciences or the Chinese Academy of Engineering, and over 800 senior professors, including winners of the National Thousand-Talent Project, the Changjiang Scholar Project, and the National Science Fund of Distinguished Young Scholars.

Under the motto of Cultivating Diversity and Striving for Excellence, Donghua University, through excellence in ideology, academics and administration, is dedicated to becoming one of China's top universities with international impact and a distinction among the Project 211 universities. In 2012,



7 disciplines were selected as First-rate Discipline Construction Project for Shanghai Universities. In the 3rd round of the national key discipline evaluation by the Ministry of Education, Textile Science and Engineering Discipline are credited the first place for three successive years in China. Materials Science and Engineering and Design Science are ranked among top 20 percent of their kind. Engineering, Chemistry, Materials Science and Physics are in the world top 1 percent, according to of the Essential Science Indicators (ESI). Donghua University was included for three consecutive years in China's Top 10 Science and Technology Progress list. It received 19 State Science and Technology Awards over 10 consecutive years. The number of papers indexed by the Science Citation Index (SCI)/Engineering Index (EI)/Index to Scientific & Technical Proceedings (ISTP) related to textiles published by Donghua University exceeds the total amount of papers written by nine other famous textile colleges and universities worldwide. In 2011, Donghua University ranked 16th among Chinese universities with respect to the number of international patent authorizations. In line with the national development strategy and the industrial layout in Shanghai, Donghua University aims to develop a framework of the disciplines with "textiles" as the fuselage, and "materials" and "design" as the two wings. Donghua is rapidly cultivating two national collaborative innovation centres for "Key Technology of Textile Industry" and "Composites for Civil Aviation" and Industrial Assemble Region for

Fashion and Originality at Donghua rim. In addition, a great number of research achievements have been applied in the fields of aerospace, military, architecture, environment protection and new materials, making great contributions to the development of strategic weapons and spacecraft projects, such as the series of Shenzhou space shuttle and the launch of Tiangong 1 space station.

Donghua University has long standing commitments to the international exchange and cooperation in education and research, and established close ties with over 100 renowned universities, research institutes and enterprises globally.

Donghua University adheres to the "student-centred and faculty-oriented" policy and puts the talent recruitment as the first priority in its strategic planning. It has built an innovative mechanism and a supporting system for retaining various kinds of talents. We sincerely welcome the elite from academia and industry to join Donghua University and become a distinctive member of a dynamic university.

東華大學  
DONGHUA UNIVERSITY



www.dhu.edu.cn  
web.dhu.edu.cn/rcbdhu





## SHANGHAI OCEAN UNIVERSITY

## Leading the way for ocean research

Shanghai Ocean University (SHOU) was founded in 1912 as Jiangsu Provincial Fisheries School and for more than a century has been training leaders in the seafood industry, policy, and marine sciences. Today, SHOU is one of the few universities to carry the torch as an ocean and land university and is the nation's leader in developing a new generation of engineers and scientists committed to preserving the ocean ecosystem for future generations. The University boasts 12 colleges and more than 1,100 faculty and staff involved in the education of more than 12,800 undergraduate and 2,800 graduate students.

The school offers a complete educational system with graduate, undergraduate, specialty, continuing education and foreign student programmes. The university has excellent facilities and a beautiful campus, with fully equipped teaching and research laboratories where significant research is done. The featured disciplines at SHOU are in leading position. SHOU owns the Key Open Laboratory of Aquatic Genetic Resources Excavation and Utilization of the Ministry of Education, the Key Open Laboratory of Aquatic Genetic Resources and Aquaculture Ecology of the Ministry of Agriculture and the Bank and Refrigeration Center of Aquatic Animals and Plants Pathogens of the Ministry of Agriculture. The university has also established special laboratories, for example the Laboratory for Fresh Water Fish Processing and Utilization Research, the Oceanic Fishery Remote Sensing and Information Research Center, as well as seven research centres at the university level.

### Positions are available in the following major areas at various levels (Professors, Associate Professors, or Assistant Professors):

**1. Bioinformatics:** Research focus on analysis of large-scale data sets, development of databases and bioinformatics tools to integrate large data with biological questions. The candidate should have a keen interest in, and commitment to, collaborating with various biology research groups.

### 2. Natural product chemistry/chemical

**ecology:** Research focus on chemical communication in aquatic animals (with a focus on fish), using any combination of chemistry, organic

chemistry, chemical ecology, observational behavior, and physiology approaches. The candidate should have previous experience in isolation, purification, and structure elucidation of compounds.

**3. Animal physiology:** Research focus on endocrinology using fish models is preferred, but could include comparative physiology, molecular and physiological bases of behavioral traits, and chemical ecology.

**4. Neurobiology:** Research focus on function and evolution of olfaction and/or neuroendocrine systems using any combination of genomic, molecular, cellular, anatomical, physiological, and behavioral approaches.

### Positions 1 to 4, please contact:

Liang Jia, [ljjia@shou.edu.cn](mailto:ljjia@shou.edu.cn)

**5. Marine science:** Research focus on atmospheric and ocean dynamics, fisheries oceanography, stock assessment, environmental oceanography, systematic ecology, numerical methods for oceanography, and polar science.

**6. Marine technology:** Research focus on satellite ocean remote sensing, marine optics, technology of marine spatial databases, and marine geographic information systems.

### Positions 5 to 6, please contact:

Gong Caixia, [cxgong@shou.edu.cn](mailto:cxgong@shou.edu.cn)

**7. Food processing and engineering:** Areas include but not limited to the following: food (aquatic products, grains and oils, livestock products, fruits, and vegetables) processing and preservation, packaging engineering, food detection and analysis.

**8. Food chemistry:** The research directions of this program include food applied chemistry, utilization of biological resources, food analysis technology, natural product chemistry, and marine bio-pharmacy.

**9. Food microbiology:** The main research directions include the mechanistic study of fish muscle differentiation and growth, genetic-engineering



technology for proteins and polypeptides with marine biological functions, and the application of biological technology in food safety evaluation and detection.

**10. Functional food:** Extraction/isolation, identification, and verification of bioactive elements from biomaterials, especially marine biomaterials.

### Positions 6 to 10, please contact:

Yifen Wang, [yfwang@shou.edu.cn](mailto:yfwang@shou.edu.cn)

We are also looking for people with research backgrounds in agriculture, science, engineering, economics, arts, and management to join our university. For detailed descriptions of all available positions and the application procedure, please refer to <http://rsrc.shou.edu.cn/2014zpjh.asp>

No. 999, Huchenghuan Rd, Nanhui New City, Shanghai, P.R. China, 201306  
Website: [www.shou.edu.cn](http://www.shou.edu.cn)



Shanghai Ocean University  
[www.shou.edu.cn](http://www.shou.edu.cn)



## SHANGHAI MARITIME UNIVERSITY

# Shanghai Maritime University seeks global talent

The Shanghai Maritime University (SMU) is a multi-disciplinary institution that encompasses such areas as engineering, law, liberal arts and science, with a special emphasis on shipping technology, economics and management. Chinese maritime education originated in Shanghai and grew out of the Shipping Section of Shanghai Industrial College, founded in 1909 (towards the end of the Qing Dynasty). SMU was established by the Ministry of Communications in 1959. In response to adjustments of the university layout in Shanghai and to better serve the construction of the Shanghai International Shipping Center, a new campus in Lingang was inaugurated in 2008.

At present the university runs two post-doctoral research stations, 17 doctoral programmes, 57 master's degree programmes, 45 bachelor's degree programmes and 12 associate degree programmes. SMU boasts nine provincial and municipal key research institutes and laboratories, one state-level key discipline, five state-level specialties with special features, nine ministerial or municipal key disciplines and 17 Shanghai municipal "educational heights". The SMU owns an aquatic training centre, a 10-thousand-ton container ship known as the Yufeng Ship and a newly-built 48-thousand-ton Yangtze handymax bulk carrier known as the Yuming Ship, which are used for teaching and internship training. In the Ministry of Education (MOE) evaluation of undergraduate education in 2004 and 2006, SMU was awarded an A grade (Excellent). The university has won multiple awards for research including national awards for science and technology projects and awards for scientific and technological progress above the municipal and ministerial level in 2013.

SMU presently includes the Merchant Marine College, the College of Transport and Communications, the School of Economics & Management, the College of Logistics Engineering (Sino-Dutch Mechanical and Electronic Engineering College), the Law School, the College of Information Engineering, the College of Foreign Languages, the College of Ocean Science and Engineering, the College of Arts and Sciences and the Scientific Research Academy. SMU has over 20,000 full-time students, including 17,000 undergraduates

and over 3,000 graduate students. Of the over 1,000 full-time teachers, 141 are professors and 46 percent hold a doctorate degree. Over the past decades, the university has produced specialists of various types at various levels for the country's shipping industry. Graduates are employed in shipping companies, port enterprises and government institutions. Deservedly, SMU has been honored as a "cradle of international shipping specialists".

SMU is looking to further strengthen the institution with talent and aims to recruit more high-level individuals to ensure outstanding personnel qualifications and to improve the development of academic programmes and the faculty. SMU has devised three plans for talent recruitment, including Project Pilot, Project Voyage and Project Sail.

## I. Major Fields of Recruitment

These include Communication and Transportation Engineering, Management Science and Engineering, Naval Architecture and Marine Engineering, Transportation Strategy and Planning, Transportation Management Modernization, Vehicle Operation Engineering, Logistics Management and Engineering, Logistics Equipment Safety Engineering, Port Power Transmission and Control Engineering, Power Electronics and Power Transmission, Electrical Engineering and Automation, New Energy, Mechanical Design Manufacture and Automation, Maritime Information and Control, Navigation Intelligent Decision-making and Simulation Technology, Navigation Environment Safety Systems, Vessel and Port Control Technology, System Simulation and Control Research, Marine Engineering, Vessel Refrigerated Transport Research and Modernization, Marine Engineering Management, Industrial Economics and International Law (Maritime Law).

Institute of China (Shanghai) Pilot Free Trade Zone Supply Chain: <http://www.shmtu.edu.cn/sites/shmtu.edu.cn/files/cifsc-zp.htm>

## II. Qualifications

1. Doctorate degree from a renowned overseas university.
2. Experience in prospective and innovative scientific research, publication of high-quality academic

papers in major academic journals of relevant fields or prominent achievements in the field of engineering and the potential to act as an academic or technology leader in field of expertise.

3. Priority given to those with 2+ years of work experience at renowned universities or research institutions overseas.

## III. Compensation

Based on the academic level evaluation of the applicant by the recruitment committee, for outstanding talents, SMU will offer a negotiable agreement of a competitive yearly salary and provide sufficient scientific research funds and a certain amount of housing subsidy. In addition, for particularly outstanding candidates, SMU will provide housing based on relevant provisions of the university.

## IV. Application Materials

1. Curriculum vitae (including continuous education and work experience from undergraduate education to the time of application, publications, research projects, and certification of awards).
2. Overview of academic success (roughly 500 words).
3. Major ideas for work if hired.

## V. Contact Information

Address: Human Resources Department, Shanghai Maritime University, No. 1550 Haigang Avenue, Shanghai

Zip Code: 201306

Contact: Huafeng Wu, Jie Li

E-mail: [hfwu@shmtu.edu.cn](mailto:hfwu@shmtu.edu.cn), [jieli@shmtu.edu.cn](mailto:jieli@shmtu.edu.cn)

Tel: 021-38284233; 021-38284232

Fax: 021-38284238



## Shanghai Maritime University

[www.shmtu.edu.cn](http://www.shmtu.edu.cn)

<http://hr.shmtu.edu.cn>



## Lilly China Research and Development Center (LCRDC)

Eli Lilly and Company has an established diabetes franchise to discover, develop and commercialize first-in-class and best-in-class therapies that address unmet medical need. As an integral part of our R&D investment, we created the Lilly China Research & Development Center (LCRDC) in Shanghai, China. The new center focuses primarily on discovering medicines to improve the health and quality-of-life of patients with diabetes in China and throughout the world. We have openings in multiple disciplines for highly qualified scientists striving for career advancement in Shanghai. Job titles and compensation will be based on the qualifications of individual candidates.

### Multiple openings for Biology Lab Head and Group Leader

#### Qualifications:

- Ph.D. or M.D. degree with postdoctoral training in relevant fields, and at least 5 years (for Lab Head) or 10 years (for Group Leader) of experience in the biopharmaceutical industry.
- Proven track record of achievements in the area of diabetes and metabolic disorders with experience in leading efforts to deliver lead compounds and drug candidates.
- Strong leadership skills and proven ability to develop and lead a diverse team of scientists with excellent managerial and communication skills.

### Multiple openings for Principal Scientist and Associate Research Director, Medicinal Chemistry

#### Qualifications:

- Ph.D. degree in organic chemistry and/or medicinal chemistry with a minimum of 5 years (for Principal Scientist) or 10 years (for Associate Research Director) of drug-discovery experience in a pharma/biotech environment.
- Proven ability to move compounds from discovery to candidate selection highly preferred.
- Experience of solving complex problems related to potency, druggability, and safety. Able to define and develop practical solutions to obtain decision-making data.
- Strong leadership skills and proven ability to develop and lead a diverse team of scientists with excellent managerial and communication skills.

### Principle Scientist, Bioinformatics

#### Qualifications:

- Ph.D. in natural science, computational sciences/informatics, related fields, or equivalent experience.
- Experience of appropriate use of informatics or in-silico technologies in support of the drug discovery and development process.
- Proven strong organizational, written, verbal, and interpersonal skills.
- Agile learner, innovative thinker, and able to contribute to a cross-functional team.
- Experience in the pharmaceutical industry.
- Programming or scripting capabilities.
- Domain-specific tools or databases.

For prompt consideration, please send your resume and cover letter to: [LCRDC\\_RECRUITMENT@LILLY.COM](mailto:LCRDC_RECRUITMENT@LILLY.COM)



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## MEDTRONIC SHANGHAI INNOVATION CENTER

# Medtronic Shanghai Innovation Center: Innovating for China and the World

Medtronic, the world's leading medical technology company, officially launched the Medtronic Shanghai Innovation Center (MSIC) in August, 2012. MSIC is one of the 28 Medtronic global R&D centres around the world and is positioned as a Center of Excellence in Innovation and Commercialization for the Minneapolis-based firm in the emerging markets. Though still in its early years, the Center already encompasses a wide range of research, technology and development projects across Medtronic's eight business units, devoted to providing innovative products and therapy solutions for a wide range of diseases from cardiovascular disorders to diabetes and end-stage renal failure.

Doctor Zhou Zhengrong, Head/Director of R&D, who directs a team of scientists, researchers and engineers at MSIC, believes insights into customer needs are essential to the Center's work. "What makes our innovation team special is that we're customer-oriented rather than only technology-driven," he says. "Fully understanding customer needs is the foundation of product development at our centre. Besides interviewing customers, we spend significant effort exploring their using ethnographic tools and methods. We spare no efforts to ensure that technology performance is strongly connected to specific customer needs,

rather than simply pushing on the limits of technology for technology's sake."

Doctor Zhou observes that customer needs in emerging markets, such as China and India, are evolving away from a preoccupation with clinical needs toward growing attention to economic values generated for doctors, hospitals, payers and patients. Factors such as the potential to expand access, ease of use and affordability have climbed up the priority list of customers. Therefore it's not surprising that the first product developed by MSIC, launched in late 2013, is a cranial closure system (called Ti-Hot) — used to repair surgical or traumatic defects in patients' bones in the face and head — addressing the needs of doctors at small-budget hospitals in lower-tier Chinese cities.

Another trait that sets MSIC apart is full engagement in the commercialization process, which is unusual compared to conventional in-house corporate R&D institutions. R&D engineers and project managers have opportunities to drive the entire idea-to-market process for a new product including design, process development, mass production, clinical study and regulatory registration, thereby transferring novel ideas to marketable products in a timely fashion.

Last but not least, MSIC has become increasingly active in teaming up with Chinese strategic partners to advance

its course. In the past summer, Medtronic signed an agreement with the Cixi Institute of Biomedical Engineering, an affiliate of the Chinese Academy of Sciences, to launch a joint research centre on biomedical materials basic research with a focus on medical device application. MSIC also plays a critical role in Medtronic's partnership with the government in Chengdu to launch the development and production of an innovative hemodialysis system, an area in which the company has never set foot before, in the booming southwestern Chinese city. The product is designed to revolutionize the way late-stage renal disease patients in emerging markets get their treatment. The mounting diversity of MSIC's innovation activities in China, a country with growing significance in the world of science and technology, contributes to the institution's role as one of the long-term growth drivers for Medtronic in the emerging markets.



Medtronic Shanghai Innovation Center

**Improve your  
probability  
of success™**



**Connecting  
insights**

**Superior  
delivery**

**Better  
outcomes**

Creating a healthier world demands a new way of working together. A broader understanding of medicines and markets. Data visibility to refine strategy and prove value. With an integrated view of the healthcare continuum, Quintiles is building biopharma and life sciences solutions — from pipeline to portfolio to population health™.

How can we help you? Contact us at:

US Toll Free: **+1 866 267 4479**

China Toll Free: **+86 400 881 0237**

**china@quintiles.com** or learn more at **quintiles.com**.







中国科学院上海分院  
CHINESE ACADEMY OF SCIENCES SHANGHAI BRANCH

The Shanghai Branch is an administrative branch of the Chinese Academy of Sciences (CAS). It coordinates the activities of CAS's research institutes in Shanghai Municipality, Zhejiang Province and Fujian Province.

During the past 60 years, the Shanghai Branch has contributed a great deal to the advancement of science in China and has witnessed the growth and transformation of its affiliate institutions. CAS's Knowledge Innovation Project, which was launched in 1998, introduced significant reform to the CAS research system, resulting in greater efficiency, improved research and better practical results for the Chinese economy.

Fourteen institutes are affiliated with the Shanghai Branch, which focus on research in two general categories: first, materials sciences and high technology; and second, life sciences and biotechnology. The former category includes research on organic chemistry and organic materials; inorganic nonmetals and metals; information; microelectronics; photoelectronics; lasers; ultraviolet and synchronous radiation; nuclear science and nuclear technology; and celestial measurement, physics and mechanics. The latter category includes research on biochemistry and molecular biology; cell biology; neurobiology; plant physiology and molecular ecology; molecular genetics; population and good health; development of new drugs; and biotechnology.

The Shanghai Branch boasts 11 state key laboratories, such as the State Key Laboratory of Molecular Biology and many other top-level facilities. In addition, the National Technology Transfer Center serves as a bridge between CAS and industry by helping to commercialize institute research results.

The Shanghai Branch has nearly 10,000 personnel, of whom almost 2,200 are senior researchers. The branch is proud to have 52 CAS members and 13 members of the Chinese Academy of Engineering working within its institutes.

The branch's Shanghai Education Center administers the institutes' 78 master's and 58 PhD degree programmes. As of the end of 2013, almost 2,900 PhD students and almost 3,000 master's students were enrolled in programmes under the Shanghai Branch. In addition, 500 postdoctoral researchers were working in branch institutes.

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## Shanghai Association for Science & Technology

Located in Nanchang Road adjoining Huaihai Road, the Shanghai Science Hall is a famous historical building, which dates back nearly 100 years. Originally built as the French Club, it was later changed to the French Hall. The building was designed by French architects Wantz and Borseren, and its style is strongly influenced by the architecture of the French Renaissance with a 6,000-square-meter garden in the courtyard.



In the 1950s, scientist representatives proposed to rebuild the area to create a place for scientific activities, which earned the endorsement of Premier Zhou Enlai. On January 18, 1958, it was renamed as the Science Hall and was autographically inscribed by Marshal Chen Yi, the then Shanghai mayor. At that point in time, the Shanghai Association for Science & Technology moved in. Thus, the original French Club became the first specialized establishment in modern China to serve the needs of scientific and technical workers.

For over 50 years, the Shanghai Science Hall has warmly welcomed academic exchanges between scientific and technical workers, adhering to the "contention of a hundred schools of thought" principle, in the hope of sparking new thinking and initiatives. Scientific and technical workers are eager to sit and debate general principles here and to discuss national affairs and learning freely. Su Buqing, Li Guohao, Yang Zhenning, Li Zhengdao and other well-known scientists have delivered illuminating scientific addresses at the rostrum of the Shanghai Science Hall.

Founded in 1958, the Shanghai Association for Science and Technology (SAST) is a non-government and non-profit organization. As the largest institution for natural sciences, technology and engineering in Shanghai, SAST boasts affiliations with 190 societies, associations and institutions across different disciplines with more than 216,000 individual members, who are recognized as an important social force for the advancement of science and technology. Moreover, SAST has subordinate chapters in 17 districts, high-tech parks, enterprises and universities in Shanghai.

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# 复旦大学附属肿瘤医院

## Fudan University Shanghai Cancer Center

Fudan University Shanghai Cancer Center (FUSCC) was established in 1931, which is the first hospital specializing in cancer in China. FUSCC is now an AAA (a sign of top hospitals according to the evaluation system by Chinese Ministry of Health) comprehensive cancer center under the auspices of the Ministry of Health, P. R. China. As the only comprehensive cancer center in Shanghai, FUSCC has the overwhelming advantage of specialized multidisciplinary cancer treatment, focusing on medical, teaching, research and prevention. It is also a non-profit organization and a university-affiliated hospital devoted to the healthcare of the cancer patients.

### Professor / Associate Professor of Breast Surgery/Abdominal (gastric) Surgery/Gynecology Department at Fudan University Shanghai Cancer Center (FUSCC)

In order to promote clinical and translational research in breast/gynecology/gastric cancer, to strengthen department teamwork ability, breast surgery/abdominal surgery/gynecology department now decides to conduct an open recruitment for a "Professor" position and an "Associate Professor" position, specific recruitment conditions are as follows:

Job Status:

1. Has presided over or been one of the key participants of important research programs and projects, major international research cooperation projects, or equivalent programs at the same level, and obtained internationally recognized academic achievements.
2. Forward-looking and innovative in clinical-translational research, with advanced academic thinking, can propose long-term and feasible research programs and projects, research areas have been or are being clear and forming characteristics, with a high reputation in the relevant international arena.
3. Has a solid theoretical foundation and a wealth of clinical experience, familiar with breast/gynecology/gastric cancer diagnosis and treatment guidelines and able to make proper treatment strategy for individual patients. Familiar with the major cancer research techniques and methods of molecular biology and related disciplines, can quickly understand and adopt new theories and new technologies.
4. In principle of Breast Surgery/Abdominal Surgery/Gynecology Department, younger than 45 years old (Professor)/35 years old (Associate Professor), healthy, rigorous academic attitude, good moral character, with a strong sense of professionalism and responsibility, helpfulness, can live in harmony with colleagues, to work full time in FUSCC, involving up to 9 months a year or more.

### Professor of Breast Surgery/Abdominal (gastric) Surgery/Gynecology Department

Recruitment Conditions:

Applicants should have a more prominent research capacity, high clinical academic level, familiar with the current status and progress of breast cancer research in the field of international forefront, with advanced and rigorous scientific ideas, have the ability to apply national grants and funding for key projects and programs in a relatively short period of time, and potential to be one of the leading scientists in the near future.

1. A professor of world-renowned universities and research institutions, Doctoral Tutor, access to world-renowned university research-based doctoral degree (Ph.D.), domestic applicants must have world-class talent or be the top among the country's counterparts, high academic attainments, innovative and curiosity for breast/gynecology/gastric cancer clinical and translational research with a strong and lasting interest.
2. Published more than 10 SCI papers in recent 5 years, as corresponding author and/or first author, including at least 1 paper in the top SCI publications in the professional field (such as Nature, Science, Cell series) with a series of influential.

### Associate Professor of Breast Surgery/Abdominal (gastric) Surgery/Gynecology Department

Recruitment Conditions:

Applicants should have a certain research capacity, high clinical academic level, familiar with the current status and progress of breast/gynecology/gastric cancer research in the field of international forefront, with advanced and rigorous scientific ideas, have the ability to apply national grants and funding for key projects and programs in a relatively short period of time, and potential to be one of the leading scientists in the near future.

1. A associate professor of world-renowned universities and research institutions, Master Tutor, Ph.D., domestic applicants must have world-class talent or be the top among the country's counterparts, high academic attainments, innovative and curiosity for breast/gynecology/gastric cancer clinical and translational research with a strong and lasting interest.
2. Published more than 5 SCI papers in recent 5 years in high-quality SCI journals, as corresponding author and/or first author, with a series of influential.

### Physician and Physicist positions in Department of Radiation Oncology at Fudan University Shanghai Cancer Center (FUSCC)

Being the first cancer center in China and the only comprehensive cancer center in Shanghai, FUSCC is now embarking a major expansion and invites applications to fill faculty position in the Department of Radiation Oncology.

The Department of Radiation Oncology at FUSCC started service in 1929, and has maintained its distinguished position since then as a national leader in providing high quality cancer care and research. The department is now the only RTOG member in China consisting of three services treating patients with H&N, Thoracic and General tumors, respectively. Radiotherapy at FUSCC encompasses with 9 state-of-the-art linear accelerators, 1 brachytherapy suite, 1 IORT linear accelerator, 2 regular simulators, 2 CT simulators and comprehensive network.

FUSCC is now co-operating Shanghai Proton and Heavy Ion Centre. The centre has four clinical rooms and a dedicated research space for technical research.

POSITION:

(1) Clinical Faculty Radiation Oncologist: Assistant / Associate Professor or Professor

- Description of position: Academically minded mid-career or senior radiation oncologists with clinical and research expertise, who are accountable for carrying out clinical duties in a manner to enhance high-quality clinical services, promote excellence in education and training programs.
- Primary Responsibilities: 1. Provide expert patient care at one or more FUSCC facilities. 2. Develop an active research program of international standard, or to strongly support the programs already in place.
- Qualification: Master or PhD in Medicine (M.D.) with at least 8 years working experience. Applicant who serves as the member of Committee Board in either Chinese or international radiation oncology societies, or as the editor member in academic journals is preferred.

(2) Medical Physicist or Senior Medical Physicist

- Purpose of position: Radiation physicist or senior radiation physicist, who is experienced in providing technical leadership to multidisciplinary teams, ensuring a healing care environment that truly extends quality of life.
- Primary Responsibilities: 1. Deliver a high standard of service across FUSCC facilities. 2. Support or establish a program to produce research of international standard.
- Qualification: Master and PhD in Physics or Medical Physics with at least 5 years working experience

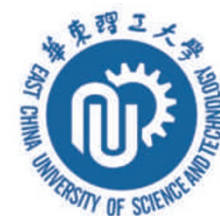
CONTACT

Please submit your application with duplicated CV by emailing to Kewei Dong, at [fduncancercenter@hotmail.com](mailto:fduncancercenter@hotmail.com). Detailed information regarding our center and application can also be found in <http://www.shca.org.cn/english>





# 華東理工大學



## East China University of Science and Technology seeks talent at home and abroad

The East China University of Science and Technology (ECUST), located in Shanghai, is the first higher-education institution in China to be renowned for its emphasis on chemical engineering. ECUST is a national key university directly under the Ministry of Education and is among those included in Project 211. Based on the Essential Science Indicators (ESI) database, the chemistry, materials science, engineering, biology and biochemistry programmes at ECUST are among the top 1 percent globally. In particular, the chemistry program is among the top one-thousandth worldwide.

ECUST is a research-oriented public university, currently home to nearly 24,800 full-time students and 3,500 faculty and staff members, distributed across 15 schools including the School of Chemical Engineering, the School of Bioengineering, the School of Mechanical and Power Engineering, the School of Materials Science and Engineering, the School of Information Science and Engineering, the School of Chemistry and Molecular Engineering, the School of Pharmacy and the School of Resource and Environmental Engineering.

The State Key Laboratory of Bioreactor Engineering (<http://sklbe.ecust.edu.cn>), which covers bioprocess engineering, bioreaction engineering and biosystems engineering and was the birthplace of the first shot of penicillin in China; and the State Key Laboratory of Chemical Engineering (<http://skloche.ecust.edu.cn>), the primary focus of which is chemical reaction engineering. The research of the State Key Laboratory has shown unique features and made prominent breakthroughs in the fields of reaction kinetics, multiphase flow and transport, and molecular thermodynamics and transfer. This laboratory founded the principles and methodology for developing and expanding oversize reactors and has successfully resolved issues concerning the localization of multiple large-scale chemical equipment sets over the years, making valuable contributions to economic and social development in China.

ECUST is now in a key stage of accelerating development, and is actively seeking talented individuals at home and from abroad to join us.

### I. Major Fields of Recruitment

State Key Laboratory of Bioreactor Engineering  
 State Key Laboratory of Chemical Engineering  
 Key Laboratory of Advanced Control and Optimization for Chemical Processes, Ministry of Education  
 Key Laboratory for Advanced Material, Ministry of Education  
 Key Laboratory for Ultrafine Materials, Ministry of Education  
 Key Laboratory of Coal Gasification and Energy Chemical Engineering, Ministry of Education  
 Shanghai Key Laboratory of Chemical Biology  
 Shanghai Key Laboratory of Advanced Polymeric Materials  
 Others

<http://sklbe.ecust.edu.cn>  
<http://skloche.ecust.edu.cn/>  
<http://acocp-lab.ecust.edu.cn/>  
<http://hyxy.ecust.edu.cn/keylab/>  
<http://uml.ecust.edu.cn>  
<http://klcg.ecust.edu.cn/>  
<http://ipp.ecust.edu.cn>  
<http://apm.ecust.edu.cn/>  
<http://www.ecust.edu.cn/s/2/t/209/p/1/c/1232/d/1250/list.htm>

### II. Qualifications

1. Doctorate degree received from a renowned university overseas.
2. 3+ years of work experience at renowned universities or research institutions overseas.
3. Experience in prospective and innovative scientific research, publication of high-quality academic papers in major academic journals of relevant fields or prominent achievement in the field of engineering, and the potential to act as an academic or technology leader in field of expertise.

### III. Compensation

Based on the academic level evaluation of the applicant by the recruitment committee, for outstanding young talents, ECUST will offer a negotiable agreement of a competitive yearly salary and provide sufficient scientific research funds. In addition, ECUST will offer transitional housing options to hired applicants with a rent discount or subsidy.

### IV. Application Materials

1. Curriculum vitae.
2. Overview of academic success.
3. Major ideas for work if hired.
4. Three letters of referral and a list of referees available to contact.

### V. Contact Information

Address: Human Resources Department, East China University of Science and Technology, No. 130 Meilong Road, Shanghai, 200237  
 Contact: Yanbo Zhou, Weidong Cui  
 Email: [rsc@ecust.edu.cn](mailto:rsc@ecust.edu.cn)  
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 Fax: 8621-64250328  
<http://www.ecust.edu.cn>; <http://personnel.ecust.edu.cn>

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