2019 SANOFI - INSTITUT PASTEUR AWARDS

8TH EDITION

For the 8th edition, the Sanofi - Institut Pasteur Awards foster scientific excellence by rewarding four researchers whose work demonstrates significant breakthroughs for global health.

INTERNATIONAL SENIOR AWARD

Dr. Carl F. NATHAN
Microbiology & Infection

Carl F. Nathan is awarded for his major discoveries in our understanding of host-pathogen relations, such as macrophage activation by interferon gamma which strongly shaped the field of immunology and dramatically influenced treatment of infectious diseases.

INTERNATIONAL JUNIOR AWARDS

Pr. Ido AMIT
Immunology

Ido Amit is awarded for his breakthrough single cell studies elucidating the diversity of the immune cell types which revolutionized our view in basic immunology and immunotherapy research.

Pr. Andrea ABLASSER
Immunology

Andrea Ablasser is awarded for her major contributions to a fundamental discovery in innate immunity: the role of DNA recognition during infection which has inspired efforts to implement strategies interfering with innate immune responses to treat inflammation-related disorders.

Dr. Marek BASLER
Microbiology & Infection

Marek Basler’s research has fundamentally advanced our understanding of a very important bacterial nanomachine which delivers effectors in neighboring cells, influencing many areas of microbiology, such as pathogenesis and polymicrobial communities.
Nanjing University Seeking Global Talents
Located in the ancient capital of Nanjing, Nanjing University and its predecessors have taken responsibility for the country and the nation during its development of over 100 years. Committed to the prosperity of the nation and the advancement of science, Nanjing University makes significant contributions to the revitalization of China.

Especially since the Reform and Opening-up, Nanjing University has seized this historic opportunity and gained vitality. It was among the first top universities to be selected for prioritized support by the Central Government of China under “211 Project” and “985 Project”. NJU was selected by the General Office of the State Council as one of the first group of National Demonstration Bases for Innovation and Entrepreneurship. NJU has been selected as among Category A universities under National Double First Class Initiative, while 15 subject areas of NJU are on the same list. As a member of the C9 League (an alliance of nine elite universities in China), NJU is known for its outstanding faculty, coordinated disciplines, and excellent research, and is recognized as a leading university with academic strength and social prestige. NJU’s mission is to cultivate talents, seek truth, serve society, and inherit and transmit Chinese culture. Its aim is to become a world-class research university of Chinese characteristics and NJU style, and to make contributions to the Chinese nation and the international community.

**Distinctive arrangement of disciplines**

NJU has built up a well-coordinated development pattern of disciplines by maintaining its strength in foundational disciplines and seeking further improvement in newly-emerging and interdisciplinary areas. The development pattern has given full consideration to development of social, natural, engineering and medical sciences.

Now, NJU has 29 departments under its direct administration. A whole raft of national first-class disciplines with global influence and distinctive features have been built up, which include 8 national first-class key disciplines and 13 national second-class key disciplines, 18 Jiangsu Province First-level Key Discipline, 88 undergraduate majors and 38 national doctoral degrees authorized first-level disciplines. NJU ranks the first among China Universities(7th in the world) according to the Nature Index issued in 2019. Besides, QS World University Rankings of 2019 shows that 13 disciplines of NJU rank in the top 100 disciplines of universities around the world. As shown in Essential Science Indicators (ESI) issued by Thomson Reuters, 17 disciplines of NJU rank in the top 1% in the world. (Data statistics as of November 2019).

**Powerful research platform**

On the strength of its gold-medal, newly-emerging and interdisciplinary disciplines, NJU has made further headway according to trend of international academic frontiers and national strategic demands. It has established a high-standard research platform represented by a batch of national or provincial-level labs, engineering centers or key research bases. Steady program has been made in the construction of both scientific research and research forces.

Now, NJU has 1 national-level laboratory (under construction), 2 national-level coordination and innovation centers (2011 Program), 7 national key laboratories, 8 key laboratories of the Ministry of Education, 1 national-level engineering research center, 2 engineering centers of the Ministry of Education, 1 engineering and technology research center of the Ministry of Environmental Protection, and 4 humanities and social sciences research centers of the Ministry of Education.
The first-class faculty

NJU focuses on pushing forward its development by training of talents. It has been devoted to the introduction and cultivation of talents. To provide powerful, systematic and holistic support for talent training, NJU unites professional forces during its development, cultivates young professionals during entrepreneurship and innovation practices, and shows considerable care for daily life of talents. The result is that a high-standard young faculty with global views and innovative abilities has been established.

In the faculty of NJU, there are 29 academicians of the Chinese Academy of Sciences, 4 academicians of the Chinese Academy of Engineering, 86 distinguished professors out of Chang Jiang Scholars Program, 116 awardees of National Fund for Distinguished Young Scholars, 10 national-level professors. NJU excels among Chinese universities in terms of the above numbers.

Outstanding students

NJU has been committed to cultivating potential industrial leaders and innovative talents with international views and practical skills. For bachelor program, NJU provide students with individualized courses, independent options, and diversified possibilities. The research program “Double Three Model” has been awarded the Prize in the Seventh National Higher-Education Achievements Award. NJU spares no efforts to push forward “4-3-3 PhD Students Education Reform”, planning to establish an ability-oriented interactive training mechanism. Students at NJU are characterized by active mind and strong innovation ability. They have won numerous awards in Chinese and foreign competitions. The graduation employment rate has remained high and stable for many years, and the level of employment and quality have been continuously improved. NJU has been awarded the Prize in Model University for Employment of National Graduates.

Attractive Campus and Complete Living Facilities

Xianlin Campus of Nanjing University is well known for its notable international elements. With a floor space of about 1.2 million m² and a green area of some 2.7 million m², representing the highest standards of construction, modernization and intellectualization in China.

Xianlin Campus has convenient transportation and direct access to Metro Line 2. While providing students with adequate teaching and living facilities, this campus brings out the best of Nanjing University by its human and natural landscapes. The campus has the Juixianghe Wetland Park and Yangshanhui Park in its west, the science park in its north, the teaching quarters in its middle, and the Heyuan Faculty Residential Quarters (solely-owned property neighboring two school catchment areas and enjoying teaching resources of surrounding kindergartens and elementary and junior middle schools) on its south. It has been expanded into a large complex which integrates local community, teaching quarters, and science park into a single whole.

Gulou Campus sits in downtown area. As the former site of University of Nanking, it is now listed as a major historical and cultural site protected at the national level. Beidaihui Building Groups are the landmark of Nanjing city, which fully displays traditional Chinese architectural styles. As a campus with a history of over a hundred years, it appears quiet and attractive throughout seasons of a years, boasting of rich traditions and spiritual legacies.

Joining Nanjing University

Nanjing University has established a talent incentive and training system from leading talents, young and middle-aged academic leaders to outstanding young talents. The system matches up with the national talent plan and provides talents of various disciplines and at different levels with promising opportunities.

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The College of Environment and Planning (CEP) at Henan University is the successor of the Department of Geography of Zhongzhou University established in 1923. Professor Jinglan Feng, a distinguished geologist and academician of Chinese Academy of Sciences was the first dean of CEP. After years of continuous efforts, CEP has developed to become a comprehensive and interdisciplinary college featuring with Geography as main body, covering Environmental Science, Ecology, Science and Technology of Surveying and Mapping and Regional Economics.

CEP sets doctoral degrees of a first-level discipline in Geography, as well as post-doctoral research program. Besides, there are five doctoral programs of second-level disciplines, including Physical Geography, Human Geography, Cartography and Geographic Information System, Economic Geography, Remote Sensing Information Science and Technology. The college also offers two doctoral programs of second-level disciplines and post-doctoral studies in Regional Economics and Ecology. In the fourth round of national assessment of the geography discipline, CEP is evaluated B+.

CEP has established a number of research and educational platforms, including the National Experimental Teaching Demonstration Center of Environment and Planning, the Laboratory of Geospatial Technology for the Middle and Lower Yellow River Regions (Key Laboratory of the Ministry of Education), Research Institute of Yellow River Civilization & Sustainable Development (Key Research Base of Humanities and Social Science of the Ministry of Education), the Middle and Lower Yellow River Regions Science Data Sharing Platform of National Earth System Science Data Sharing Infrastructure, Regional Economy Research Center of Henan Province (Key Research Base of Humanities and Social Science of Henan Province), the Spatio-Temporal Big Data Industry Technology Research Institute of Henan Province, the Integrative Prevention of Air Pollution and Ecological Safety Key Laboratory of Henan Province.

CEP has a faculty of 160 members, including one academicians of the Chinese Academy of Engineering (CAE), one academician of Inter-national Eurasian Academy of Sciences (IEAS), one Yangtze River Scholars, two Distinguished Young Scholars of National Science Foundation of China (NSFC).

In order to achieve two strategic targets, focusing on natural environment, ecological process and regional high quality development in the middle and lower reaches of the Yellow River, CEP has developed five research fields as human geography, economic geography, Geographic Information System, environmental geography and ecological geography. More than 70 national scientific research projects were granted, 48 research rewards of provincial, ministerial and national level were awarded (including the first-place prize of Henan Province Science and Technology Progress of “the Research and Application of Key Technologies of Earth System Science Data Sharing project” in 2013) and more than 180 articles in SCI, SSCI, EI and other Chinese top journals were published in last three years.

We are eager for ambitious and outstanding researcher to join us from all around the world! The one hundred-year-old Henan University welcomes you! The one thousand-year-old Kaifeng welcomes you! The ten thousand-year-old Henan welcomes you! Let us hand in hand to create brilliant CEP.

Website: http://cep.henu.edu.cn
Email: psq@henu.edu.cn
Welcome to the first NanjingTech “Exploration and Wisdom” International Young Scholars Forum

About the Forum
The first NanjingTech "Exploration and Wisdom" International Young Scholars Forum will be held in Nanjing from December 26 to December 28, 2019. This forum aims to gather outstanding young scholars from different academic backgrounds at home and abroad, focusing on the integration of cutting-edge-research, such as artificial intelligence and big data, together with traditional industries. The forum aspires to build a stage for talents, exploring the frontiers of science, climbing academic peaks and promoting value creation. This forum is jointly organized by NanjingTech, Nanjing Jiangbei New Area and China Zhi Gong Party. It consists of a main forum and six sub-forums on life health, intelligent manufacturing and advanced materials, energy and environmental protection, digital finance, smart city and software information. We hereby invite outstanding young scholars at home and abroad to sign up for this event.

Participants
1) Domestic invitees: national standard high level talents or corresponding standard excellent talents.
2) Overseas invitees: With a Ph.D. from a well-known overseas university; or with a domestic doctoral degree and more than 2 years of continuous overseas research experience. For talents within the humanities and social sciences, or talents in shortage within the science and engineering, the qualification requirements are flexible.

Application
If you are qualified and interested, please submit your resume (see Attachment 3 for details) and fill out the “Summary of the First NanjingTech “Exploration and Wisdom” International Young Scholars Forum in 2019” (see Attachment 3 for details). Please send the above materials to: talent@njtech.edu.cn and note the subject of the email as “Name + Forum Participation + Intention College”.

Schedule
- Registration deadline: Dec. 5, 2019
- Invitation deadline: Dec. 10, 2019
- Forum Date: Dec. 26~28, 2019

Expenses
There is no charge for this forum. After you receive the official invitation, please book the tickets by yourselves (economy class air ticket or second-class high-speed rail ticket). NanjingTech will provide free meals and accommodation and offer reimbursement for round-trip transportation expenses, for which original bills are required. (The maximum reimbursement is 15,000 RMB per person for European and the American invitees, etc.; 8,000 RMB per person for Asian invitees; 6,000 RMB per person for domestic invitees, including Hong Kong, Macau and Taiwan).

About NanjingTech
Nanjing Tech University has a history of more than one hundred years as a cradle of education. It is one of the first batch of 14 universities of the Higher Education Innovative Capacity Promotion Plan (“2011 Plan” for short). It is a key institution of higher learning in Jiangsu Province, which is piloting comprehensive reforms and strategy for developing a strong faculty of talents. Nanjing Tech University is among of the first group of institutions of higher learning approved by the Chinese Ministry of Education for the training of “Excellent Engineers” and the comprehensive reform of graduate education for professional degrees. Nanjing Tech University is located in the dual-core Jiangbei New District and National Free Trade Zone (Nanjing District) of the National New District, and was recognized as the “The Most Beautiful Campus in Nanjing”. Our university has 11 faculties, 29 colleges and more than 30,000 students, one first-rate National Key Discipline, one first-rate Jiangsu Provincial Development Base for National Key Disciplines, two Jiangsu University Development Bases for National Key Disciplines and four Jiangsu Provincial Preponderant Disciplines. It has seven postdoctoral research stations, six primary disciplinary categories that offer 38 doctoral programs in subordinate disciplines, 22 primary disciplinary categories that offer 112 Master Degree programs in subordinate disciplines and 87 undergraduate programs which comprise eight. Nanjing Tech University is ranked 56th in the Chinese mainland universities in ESI 2019(September) and Chemistry, Materials Sciences, Engineering and Biology & Biochemistry are among the top 1% in the world.

With profound cultural heritage, rich entrepreneurial atmosphere, beautiful campus environment, first-class discipline platform, competitive remuneration package and advanced intellectual property system, we sincerely welcome outstanding young talents at home and abroad to join Nanjing Tech University.

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OPPORTUNITIES IN CHINA
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Seeking to promote mental health

Peking University Sixth Hospital, or Peking University Institute of Mental Health (IMH), is China’s topmost psychiatric hospital. Its director, Lin Lu, an academian of the Chinese Academy of Sciences (CAS), is seeking new therapies for mental and substance use disorders, two major health concerns in China.

Professor Lu and his team have made great efforts to reveal the molecular and circuitry basis of consolidation, storage, destabilization and reconsolidation of pathological emotional memories and proposed a series of novel approaches, including procedures targeting conditioned and unconditioned stimulus induced reconsolidation, to erase memories by making them unstable. Their proposed behavioral and drug treatments have been published in leading peer-reviewed journals, including Science and JAMA Psychiatry.

With passion for science and compassion for patients, Prof. Lu’s team has established a new method to eliminate adverse emotional reactions to the commonly used exposure therapy in the unconscious state of sleep, thus significantly relieving patients’ distress. Also committed to unraveling the relationship between sleep and mental health, Lu’s team has found that sleep disturbances can increase the risk for developing dementia, and sleep disturbances and depression often coexist in the elderly as bi-directionally predicted. Several novel fast-acting antidepressant candidates have been developed to reveal a new glutamatergic mechanism, filling the current treatment gap.

Please feel free to contact Dr. Ping Wu, wuping@bjmu.edu.cn.

Exploring Brain Extracellular Space

Professor Hongbin Han, the director of a key laboratory at Peking University (PKU), is leading a team working on brain Extracellular Space (ECS), which provides an immediate living environment for neural cells and accounts for approximately 20% of the total volume of a living brain. So far he has developed two measuring methods which can provide biophysical parameters of ECS and image the interstitial fluid (ISF) drainage in the whole brain.

By using the self-developed measuring system, Dr. Han and his team have made a series of discoveries, i.e. brain ISF drains in a compartmentalized ECS system and the diffusion in different ECS divisions is disparate. After verifying the nature of the barrier between divisions, Dr. Han has proposed the hypothesis of “compartmentalized local homeostasis”, namely, the brain is protected not only by Blood Brain Barrier (BBB) which avoids exogenous damage through the vascular system, but also by an internal drainage barrier to avoid potentially harmful interference from other divisions. Based on these new findings, a new drug delivery method via ECS has been established, by which the drug arrives directly to the space around neural cells, and overwhelms the impedance from BBB, thus solving the obstacles of low efficiency in traditional drug administration. At present, the new method and findings have been applied in many frontier fields of neuroscience, such as new drug development, aging, aerospace medicine, and artificial neural network modeling.

Please feel free to contact Professor Hongbin Han, hanhongbin@bjmu.edu.cn

Promoting Clinical Translation of Neuroscience

The Neuroscience Research Institute of Peking University, as the core research center for neuroscience at Peking University, is a key laboratory for Neuroscience of the Ministry of Education and the National Health Commission, China. Its history dates back to 1965, when Professor Han Ji-Sheng, now a member of Chinese Academy of Sciences (CAS) and internationally recognized for his research on acupuncture analgesia, began his pioneering work.

At present, the Institute is devoted to bench and bedside studies in both traditional Chinese medicine and modern medicines, with special focus on translation neuroscience. Apart from the neurobiology of acupuncture, the Institute’s other research interests include pain and analgesia; drug addiction and its treatment; and neurodegeneration, injury and repair. Publications have appeared in top journals, such as Nature Neuroscience, Nature Communications, and the Journal of Neuroscience. Its basic research outcomes have been translated into clinical devices, such as Han’s Acupoint Nerve Stimulator, already widely applied to treat various disorders, such as pain, assisted reproduction, and autism.

The Institute strives for excellence in both research and teaching, and aims to become a nationally leading and internationally recognized academic community of neuroscience. To accomplish this goal, we will continue to embrace advanced techniques, multidisciplinary approaches and collaborative spirit.
Exploration of Brain Extracellular Space in China

Professor Hongbin Han is the director of a key laboratory at Peking University (PKU) who is working on brain Extracellular Space (ECS), an incompletely understood and explored area which provides an immediate living environment for neural circuit and accounts for approximately 15%-20% of the total volume in a living brain. Twenty-five years ago, as an interventional radiologist, Han engaged himself in the early diagnosis and treatment of cerebral ischemia. While studying the permeability of blood-brain barrier (BBB) by using dynamic contrast enhanced MRI, he, by accident, acquired a parameter of the space outside the cellular and vascular compartments. It was the first time that the ECS parameter of the human brain was detected and demonstrated by MRI. Since then, for 15 years, he and his team have been working on developing new ECS measuring methods which can visualize the dynamic drainage process of labeled brain interstitial fluid (ISF) and obtain ECS parameters in the deep brain. There are two methods, RTI-TMA+ and IOI, which can help acquire the biophysical parameters of brain ECS one or two-dimensionally, while the ECS in the deep brain cannot be detected and analyzed. Tracer-based MRI, the only one based on anisotropic modeling, can acquire and calculate the molecular diffusion parameters on a large scale and visualize the drainage route of the labeled ISF in the whole brain.

By using their self-developed measuring system, Prof. Han and his team have made a series of discoveries about ECS and ISF. They have found that the brain ISF drains in a compartmentalized ECS system and the biophysical characteristics in separated ECS divisions are different: the traced ISF from the caudate nucleus drains to the ipsilateral cortex along myelin fiber tracts, while in the opposite direction, its movement to the adjacent thalamus is completely impeded by a barrier structure which has been identified as the converged, compact myelin fascicle. After verifying the nature of the barrier structure between different drainage divisions, Prof. Han proposed the hypothesis of “compartmentalized homeostasis” and thus demonstrated that the brain is protected not only by BBB which avoids exogenous damage through the vascular system, but also by an internal ISF drainage barrier to avoid harmful interference from other ECS divisions.

With the new findings and the proposed hypothesis, an innovative therapeutic method for encephalopathy with local drug delivery via the brain ECS has been established. By using this new administration method, the drug is delivered directly to the space around neurons or target regions, overwhelming the impedance from BBB, thus removing the obstacles of low efficiency in traditional drug administration and re-adopting Citicoline, a neuroprotective drug declared ineffective by Nature Reviews Neurology in 2012. As the tracer-based MRI method can accurately calculate and predict the drug transportation and distribution routes in ECS, the location of drug administration and the concentration dose can be precisely designed according to the characteristics of the lesions. The results have shown that the treatment effect, with only 1/800 of the standard dosage, is 6 times better than the traditional method. Furthermore, the efficiency in administering the herbal medicine "Acteoside" via ECS at PKU School of Pharmaceutical Sciences, has also been enhanced. The research was approved as a US patented invention in 2015. Recently, a non-invasive brain ECS imaging technique has been established using MRI, which can scan ECS structure in the human brain.

Today, these new measuring techniques and technologies have been applied in many frontier fields, such as neuroscience, new drug development, development and aging, aerospace medicine, clinical encephalopathy treatment and artificial neural network modeling. Neurologists used to focus only on brain cells and neural circuit, and few achievements have been made in treating AD and stroke patients via the two-compartment model. With the two-compartment model upgraded to the three-compartment model, more breakthroughs in neuroscience are expected to be made in the future.

Please feel free to contact Professor Hongbin Han, hannahongbin@bjmu.edu.cn
BNU Seeking Top Talents in Systems Science

Beijing Normal University (BNU), as a venerable and dynamic institution, has a long-held tradition of partnering with leading academic institutions from around the world. Noted for its culturally rich and diverse environment, BNU endeavors to become a leader of higher education in China, Asia and even the world.

The School of Systems Science (SSS) at BNU advocates interdisciplinary research in systems science through collaboration with other disciplines in natural, social, technical and economic sciences inside and outside BNU. Having such a uniquely collaborative environment together with outstanding research facilities, SSS aspires to excel internationally in the field of Systems Science.

In 2018, SSS will establish an International Science Center for Complex Systems on the Zhuhai campus of BNU in southern China. This center aims at the frontiers of scientific research and technical innovation, specifically in the formation mechanism of human decision making behavior and its neural mechanism, together with data analysis of human behavior and artificial intelligence (including swarm intelligence). By mobilizing its top experts to lead key research projects in cooperation with talents around the world, this science center is expected to become an international platform for systems science development as well as an interface between academia, industry and governmental authorities.

In order to carry out cutting-edge research in systems science, SSS intends to expand its research team. Its current research portfolio includes, but is not limited to the following fields:

i. The fundamental theories of complex system.
ii. Social and economic system.
iii. The life ecosystem and the self-organizing behavior of brain and cognition.
iv. Multi-agent system and evolutionary algorithm.
v. Information technology of artificial intelligence systems.
vi. The science of science.

I Think the Next Century Will Be the Century of Complexity.

SSS sincerely welcomes famous scholars, academic leaders, promising young scholars and postdocs in interdisciplinary areas of systems science. The applicant is expected to have a doctoral degree in relevant orientation, a solid research foundation and outstanding research findings in the above-mentioned fields, with great potential for being an excellent teacher and tutor, at the same time an excellent team player in interdisciplinary collaboration.

BNU will place each successful applicant in a proper position according to his/her academic background, research interests and teaching plan, and provide him/her with competitive salary, sufficient start-up fund, necessary laboratory and office space, and other reasonable supports. During the employment, BNU will evaluate each faculty member’s capacity and potential and provide the best opportunities for vocational development in line with the international conventions and common practices in academic circles.

Over the years, SSS has made great contributions to the sustainable development of systems science in and outside China. Faced with the complex social and technological challenges, SSS will continue to solve scientific problems in nature and society. By integrating many different yet relevant disciplines and building the international advanced research center of complex systems, SSS strives to cultivate high-level interdisciplinary talents so as to generate new knowledge, new minds, and new technologies that will promote the creation of a shared future for mankind. In time, SSS will become a crucial education and innovation incubator for big data, artificial intelligence, future brain and intellectual education.

SSS cordially welcomes job applicants and visiting scholars with expertise in systems science and related areas. The school also welcomes research and education collaboration from China and the rest of world.

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OCCUPATIONAL OPPORTUNITIES IN CHINA
Shenzhen University (SZU) was founded as a public university in 1983 located at the Nanshan Peninsula. Facing Hong Kong across the sea, it has undergone rapid growth and expansion in the past 36 years just like the city of Shenzhen, China’s most successful Special Economic Zone, and has become a comprehensive university with complete disciplines and facilities, and a strong faculty team. Acclaimed as one of “the most beautiful universities” in China, SZU is committed to becoming a university that manifests the development of Shenzhen, a window of China’s reform and opening up and a pilot zone of higher education. In the 2019 World University Ranking Analysis Report released by CUAA (Chinese University Alumni Association), SZU ranks 53rd nationwide, 24th among China’s comprehensive universities, and 579th in the world. (CUAA’s report is based on the top 10 university rankings including the 2018-2019 QS World University Rankings and US News rankings).

Disciplines
Consisting of 25 schools and 2 affiliated hospitals, SZU is a multi-disciplinary university covers 11 disciplines including philosophy, literature, economics, law, education, science, engineering, management, medicine, history, and art. Providing 96 undergraduate programs, it now boasts 5 state-level specialty programs, 14 provincial-level specialty programs, and 15 provincial-level key disciplines. It also has 10 first grade doctoral degree conferring disciplines, 9 post-doctoral mobile research stations, and 1 post-doctoral research center.

SZU enjoys rich teaching resources and scientific research facilities. It has established several national engineering laboratories, national engineering technology research centers, key laboratories under the Ministry of Education, international cooperation bases under the Ministry of Science and Technology and provincial key laboratories.

Seven disciplines of the university have entered the top 1% of ESI: Engineering, Clinical Medicine, Material Science, Biology and Biochemistry, Computer Science, Chemistry and Physics, among which Engineering, Computer Science and Materials Science have entered the world’s top 0.5%.

Scientific Research
SZU has been deepening the reform of the scientific research system, and the research projects and funding have grown significantly. In 2018, the total research funding exceeded 1.1 billion yuan with 302 new NSFC (National Natural Science Foundation of China) projects and 33 new NSSFC (National Social Science Foundation of China) projects, taking the lead in the country and ranking first in Guangdong. Our faculty published a total of 3,293 papers in SCI indexed journals and 238 papers in SSCI indexed journals, receiving 2,846 scientific research awards.

Faculty Team
SZU boasts many eminent scholars with a total of 2,387 full-time teachers, 50% of whom are senior professionals.

With the strong backing of Shenzhen municipality, and on the strength of the Guangdong-Hong Kong-Macao Greater Bay Area, SZU will continue to strive to become a global institution, foster high-quality innovative and entrepreneurial talents in the spirit of reform and innovation, strive for cultural leadership to realize innovative and qualitative development, and build the high-level Special Economic Zone University for the people.

Talent Recruitment Plan in 2019
SZU is seeking applicants with a strong background in all disciplines. We also appreciate the interest of candidates in employment at our growing institution.

I. Qualifications (meet one of the following conditions):
1. Applicants must be recognized as outstanding and high-level talents in the field of disciplines at home and abroad;
2. Applicants must have more than 3 years research experience and have formal teaching or research positions in well-known universities and other institutions.

II. Remuneration
1. Remuneration: SZU provides competitive remuneration. The successful candidate with outstanding achievements in scientific research will be granted with an annual salary (pretax) up to 1.7 million yuan (about USD 245,000);
2. Research start-up funds: SZU provides funding through various channels. Funding for natural sciences can be up to 8 million yuan, for humanities and social sciences, up to 500,000 yuan. Start-up funds for academicians and outstanding talents with considerable contributions can be determined by negotiations;
3. Competitive benefit package for high level talents in Shenzhen. (Negotiable)
4. Team building: SZU provides preferential policy for the successful candidate to recruit postgraduates, post-doctors and full-time researchers;
5. SZU will assist in the settlement of spouses and children of the successful candidate, and spousal hires may be arranged;
6. Education support: The SZU Affiliated Education Group has kindergarten, primary school and secondary school to provide high-quality education services for the children of faculty and staff;
7. Health care: The Shenzhen University General Hospital (First-Class Hospital at Grade III) provides quality medical services for faculty and staff.

Contact
For more information, please visit us at www.szu.edu.cn
For further information regarding application procedures, please contact Ren Qiang at zuaad@szu.edu.cn or 0086-755-26535295,
Liang Fuxin at szurcb@szu.edu.cn or 0086-755-26918415.
Academic Positions Available at Anhui University of Technology, Ma’anshan, China

Anhui University of Technology (AHUT) was founded in 1958. It is a multidisciplinary university with engineering as its focus, while maintaining balanced programs in science, management, humanities, economics, law and arts. The university is located in Ma’anshan, Anhui Province, a city with titles of “National Civilized City”, “National Garden City”, “Top Quality Environment City”, “National Tourism City”, and with 40 kilometers to Nanjing, the “Capital City for Six Dynasties in Ancient China”. AHUT is a key institution of higher learning in Anhui Province, one of the 100 key universities in central and western China receiving privileged support from the Chinese Ministry of Education (MOE), and also a higher institution listed by MOE for implementing “Outstanding Engineering Education Plan”. Its undergraduate teaching is rated “Excellence” in MOE’s national teaching-quality assessment.

Recruitment Requirements

A. Top-level Excellent Talents

1. Qualifications Required

1) First-level excellence
Meet the excellence or equivalent level of Academicians of Chinese Academy of Sciences or Chinese Academy of Engineering.

2) Second-level excellence
Meet the excellence or equivalent level of Changjiang Scholarship Specialty Professors or the winner of National Outstanding Youth funds.

3) Third-level excellence
Meet the excellence or equivalent level of listed Candidates of National Ten-Million Talents Project, National candidates of the New Century Talents Program, or listed candidates of other national key talent platforms.

2. Payment and Welfare
Negotiable.

B. Young Excellent Talents

1. Requirements

1) Doctoral degree obtained from well-known universities (institutions)
2) Research experiences for over two years with great potential.

2. Payment and Welfare

1) Payment of Professor & Associate Professor;
2) Setting-in allowance: 100,000 RMB;
3) Research start-up fund: 100,000-400,000 RMB;
4) Housing subsidy: 200,000-500,000 RMB;
5) Transitional housing with over 90 square meters
6) Spouse’s job placement.

Contact information

Contact person: Mr. Shi
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E-mail: ahgydjkzp@163.com
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Faculty Opportunities in Changsha University

Located in the historical and cultural city of Changsha, capital of Hunan Province, Changsha University (CCSU) is proudly designated as application-oriented university in Industry-University Cooperation programs of National “Thirteenth Five-Year Plan”. As one of the few newly authorized universities in Hunan Province to establish postgraduate programs and the only municipal-level university in Changsha City, CCSU enjoys both provincial and municipal funding and is principally directed by municipal administration. Boasting 133 hectares garden-like campus, CCSU runs 16 schools (departments) with 44 undergraduate programs, and attracts 1,029 faculty members and over 14,300 full-time students. With decades of dedication, a multidisciplinary development vision in CCSU has been generally realized, featuring a diverse yet integrated structure including science, engineering, law, management, humanities and arts, which is prominently underpinned by engineering application programs with strong support from programs in cultural creativity and modern service fields. To further pursue excellence in both research and innovation, we earnestly seek for qualified candidates worldwide, offering favorable environment and facilities, internationally competitive salaries and benefits.

Requirements, Remuneration and Benefits

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<th>Positions</th>
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<tr>
<td>Leading Scholars</td>
<td>Qualified to be listed in “Overseas high-level talents introduction program”, China National Funds for Distinguished Young Talents; professors or scholars with the equivalent academic achievements from elite international universities or institutes; senior technical or managerial specialists from world-renowned enterprises or institutions.</td>
<td>1. Research startup fund: RMB 5,000,000 or above for natural sciences; RMB 1,500,000 for social sciences; 2. Housing allowance: RMB 2,000,000; 3. Annual salary (pre-tax): RMB 1,150,000 or above.</td>
</tr>
<tr>
<td>Academic Leaders</td>
<td>Qualified to be listed in “Overseas high-level talents introduction program” for young professionals, National Science Foundation for Outstanding Youth Program; associate professors or scholars with the equivalent or above academic achievements from elite international universities or institutes; senior technical or managerial specialists from world-renowned enterprises or institutions.</td>
<td>1. Research startup fund: RMB 2,000,000 or above for natural sciences; RMB 800,000 for social sciences; 2. Housing allowance: RMB 1,200,000; 3. Annual salary (pre-tax): RMB 700,000 or above.</td>
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<tr>
<td>Academic Backbones</td>
<td>Elite Chinese young scholars; assistant professors or scholars with the equivalent or above academic achievements from elite international universities or institutes; intermediate technical or managerial specialists from world-renowned enterprises or institutions.</td>
<td>1. Research startup fund: RMB 1,000,000 or above for natural sciences; RMB 500,000 for social sciences; 2. Housing allowance: RMB 800,000; 3. Annual salary (pre-tax): RMB 500,000 or above.</td>
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<tr>
<td>Excellent Doctors</td>
<td>1. Post-doctor or Ph.D holder, candidates with consecutively 3+ years of working experience in industries or enterprises related to their research fields 2. Comparatively strong and promising research capacity.</td>
<td>1. Research startup fund: RMB 50,000-100,000 for natural sciences; RMB 30,000-50,000 for social sciences; 2. Housing allowance: RMB 300,000-600,000; 3. Annual salary (pre-tax): RMB 150,000 or above.</td>
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<td>and Post Doctoral</td>
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<td>Fellows</td>
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</table>

1. Candidates are required to be able to teach in correct and fluent Chinese; 2. Individual treatment for candidate with outstanding achievements is negotiable; 3. Special treatment for academic team recruitment is negotiable.

Recruitment Disciplines


Contact person: Mr Nan, Mr Li
Telephone: 0731-8426 1360 Mailbox: ccsuhr@163.com Website: www.ccsu.cn
Address: No.98 Hongshan Road, Kaifu District, Changsha City, Hunan Province
Automation Science and Technology at NEU

Seeking to promote automation and intelligence of process industry

The State Key Laboratory of Synthetical Automation for Process Industries (Northeastern University) is China’s topmost lab in information science area. It’s director, Tianyou Chai, an academician of the Chinese Academy of Engineering (CAE), IEEE Fellow and IFAC Fellow, is seeking new theory and technology for Industrial AI, main concerns of smart manufactory.

Professor Chai and his team have made great efforts to develop pioneering automation science and technology to address the challenges in a systematic manner, so as to accentuate benefits to the industry. These novel methods to confront various industry-specific important complexities such as different time scales, extreme process and operational nonlinearities, multiple and strongly coupled operational indices, frequently changing process conditions and widely varying raw material composition. His works emphasize the modeling and feedback control challenges due to lack of methods for on-line quantification of production indices such as energy and material consumptions, product quality and production efficiency; and strongly coupled and often contradictory performance indices involving difficult design and control compromises. Moreover, these discuss difficulties in using existing control methods in this industry due to wide fluctuations in production/process variables, which involve frequent adjustments of multiple set-points. Consequently, the control targets could not be accurately tracked in a timely manner, which would lead to high energy and resource consumptions, and low product quality.

Professor Chai and his team have developed data-driven dual closed-loop intelligent optimal operational control methods. The proposed methods employ a two-layer structure: a control loop setting layer; and a closed-loop control layer. Owing to vast and nonlinear variations in the compositions of raw materials, the control loop setting layer is to generate the time- and process-varying set-points. The closed-loop control layer is to achieve set-point tracking considering virtual unmodeled dynamics compensation.

The proposed methods employ detection of potential faults caused by inappropriately selected set-points, and a self-adjusting strategy that adjusts the set-points to ensure minimal unscheduled process interruptions. Subsequently, they proposed an intelligent closed-loop optimal control method composed of the control loop pre-set model, performance indices forecasting model, feedforward and feedback compensators, fault condition diagnosis and self-adjusting intelligent controllers.

The technology developments have contributed enormously to economic developments in China and a few other countries. These include the largest hematite and magnesia production plants. These have also been implemented for alumina, nickel and cobalt production plants in Vietnam and Papua New Guinea, which have provided significant economic benefits. The technology has helped industry to improve metal recovery rate by 2.01%, grade concentration by 0.57% and energy consumption reduction by 20%, which amounted to increase in operating profit of 6.5 million dollars for the hematite mineral processing enterprise. The applications in the magnesia production enterprise also showed significant economic benefits. These included 5.12% reduction in energy consumption per ton of the material, 2.5% increase in the rate of finished magnesia and 2.7% reduction in electrode dissipation, which culminated in annual profit increase of 5.5 million dollars.

Laboratory Introduction

The State Key Laboratory of Synthetical Automation for Process Industries (SAPI) pursues fundamental research and advanced cutting-edge technology development to meet the requirements on high automation performance, intelligent and optimal manufacturing in process industries. Technically, SAPI focuses on the development of data-driven control theory and technology, including intelligent data modelling, advanced control and smart decision-making techniques for complex process industries.

SAPI has very strong leadership in academy and has attracted many outstanding academics around the world, including 2 CAE Academicians (one is elected in 2019), 9 Distinguished Young Scholars of Natural Science Foundation of China and 9 Chair Professors of Cheung Kong Scholars Program, 4 NSFC innovative research groups, and 2 Discipline Basements of Innovation and Talent Recruitment (111 Plan).

SAPI has established experimental platforms for teaching and research on the following specific topics such as intelligent data modelling, control and decision-making, smart control system design for process industry, big data processing for industrial monitoring systems, networked control systems and cloud computing; and integrated automation system design.

Along with the associated National Engineering Research Center, SAPI continuously renovates itself and opens a door for rapidly transferring fundamental research outcomes to advanced technologies with applications. Over the past years, SAPI has devoted to developing a theoretical framework for operational optimization and control, which is well recognized internationally. Its technical contributions have been reflected by many best paper awards of top journals and prestigious international conferences. On September 11th, 2013, Vice Premier of China, Yandong Liu, visited SAPI and made the following comments: In regard to the great demand for production automation, the lab has deeply integrated industrialization with information technology, academic study with talent training, and scientific research with industrial applications, and has achieved great innovative accomplishments with great reputation and recognition by international experts. These contributions substantially support the national goal of industrial production automation, which could play an important role in implementation of the ‘Four Modernizations’ of China.

SAPI carries out extensive and comprehensive international collaboration, having a great impact on the global research and engineering community. Three former presidents of IEEE Control System Society, Prof. Roberto Tempo, Prof. Maria Elena Valcher and Prof. Francesco Bullo, visited SAPI in 2010, 2015 and 2018, respectively, and they all give high appraisal. For example, Prof. Bullo made the comments: “I am especially thankful to Prof. Tianyou Chai for hosting me at Northeastern University in Shenyang, China. His highly regarded State Key Laboratory is a truly unique and impressive center focused on control science and technology transition in the context of automation and greening of complex industrial processes.”

Research fellows and PhD graduates in related fields, such as information science, computer, artificial intelligence or mathematics, are warmly welcome to join us. Our mission is to promote industrial automation to industrial artificial intelligence. We will provide competitive salary and start-up funding support, excellent facilities and environment.
Welcome back to hometown. Thousands of academic job vacancies are in fast-developing China.

On-the-spot Recruitment in UK
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Dec. 11, 2019 Queen Mary University of London

On-the-spot Recruitment in France
Dec. 14, 2019 Pierre and Marie Curie University
Dec. 15, 2019 Université Paris-Sud

Participating Universities
Notheastern University
Xuzhou Medical University
Shanghai University of Electric Power
The First Affiliated Hospital of Jinan University

Online Job Fair
Dec. 21, 2019(GTM+8) www.edu.cn/cv

Participating Universities
Shanghai University of Political Science and Law, Nanchang University,
X’ian Technological University, Inner Mongolia University of Technology,
Inner Mongolia University of Finance and Economics, Inner Mongolia University,
Hunan University of Technology and Business, China Three Gorges University,
Hubei University of Technology, Wuhan Polytechnic University,
Jiangsu Normal University, Northeastern University, Hanguo Normal University

Qualification for Applicants
Overseas scholars, Doctor and Post-doctor

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乡愁，
是那一汪大海，
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家人在那头。

千万个
不回的理由，
难抵
一个归根的念头。

Nostalgia, is like an ocean, I am here, the family is over there.

Thousands of reasons to stay abroad, but one decision to return to the roots.

Overseas Chinese Scholars' Visit to Top Chinese Universities
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Toxicology is defined broadly here to encompass the study of any chemical substance with detrimental effects on arthropods and thus candidates working in the areas of chemical ecology, venom biology, insect pathology, plant-insect interactions, chemical signaling, and allied disciplines are welcome to apply, as are candidates working on pesticide mode of action, detoxification, environmental persistence, and resistance evolution. The successful candidate will be expected to develop an externally funded research program, teach at the undergraduate and graduate levels, and collaborate with other faculty to develop research initiatives. The ideal candidate will work at the interface of some combination of toxicology, physiology, molecular genetics, and genomics. A PhD in biology, entomology, plant biology, physiology, molecular genetics, genomics, or other relevant areas is required. The proposed start date is August 16, 2020.

The Illinois College of Liberal Arts and Sciences is a world leader in research, teaching, and public engagement. Faculty in the College create knowledge, address critical societal needs through the transfer and application of knowledge, and prepare students for lives of impact in the state, nation, and globally. To meet these objectives, the College embraces and values diversity and difference through hiring faculty candidates who can contribute through their research, teaching, and/or service to the diversity and excellence of the Illinois community. The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. For more information, visit http://go.illinois.edu/EEO. The Department of Entomology has a longstanding reputation for its paradigm-changing research in entomology and its distinguished graduates who have provided leadership in research, teaching, and professional service to the discipline of entomology. Our emphasis is on basic biology, with the goal of discovering new knowledge about the biology of insects as models for understanding basic principles and as organisms whose distinctive attributes have contributed to unparalleled diversity and economic impact. Within entomology, core strengths are in ecology, systematics and evolution, physiology and behavior, genomics, and integrative pest management, with vector-borne disease, invasion ecology, chemical ecology, and pollinator health as major areas of interest. Complementing line faculty are more than a dozen campus affiliates from four Colleges and the Illinois Natural History Survey.

To ensure full consideration please create your candidate profile through https://go.illinois.edu/KMFCChair and upload your application materials: application letter addressed to search committee chair Dr. Gene Robinson, curriculum vitae, statement of research interests, statement of teaching philosophy and experience, and contact information for three or more professional references by the closing date of January 20, 2020. Letters of recommendation may be requested electronically from referees at a later date. Only applications submitted through the University of Illinois Job Board will be considered. For further information, contact Kearns Metcalf and Flint Endowed Chair in Insect Toxicology Search Committee sib@life.illinois.edu or call 217 333-3488. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

The University of Chicago is an Equal Employment Opportunity/Disabled/Veterans Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law. For additional information please see the University's Notice of Nondiscrimination.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-1032 or email equalopportunity@uchicago.edu with their request.