THE COLLEGE OF ENVIRONMENTAL SCIENCES AND ENGINEERING

is devoted to cutting-edge fundamental research and clean technologies for a sustainable future

To improve the environment in the midst of rapid development is a major challenge facing China. As one of China’s earliest programs dedicated to environmental research and talent cultivation, the College of Environmental Sciences and Engineering (CESE) of Peking University (PKU) takes it as its mission to tackle Chinese and global environmental challenges. CESE has built a whole-process research system, integrating science, engineering and public policies. In line with the pursuit of Excellence and Relevance, CESE endeavors to establish a world-class environmental discipline and research platform, cultivate high-level talents with global vision, and become a top environment policy think tank. According to the latest ESI data, PKU Environmental Sciences program ranks in the top 0.2% in the world. In the latest U.S. News & World Report and Quacquarelli Symonds discipline lists, environmental sciences at PKU ranks 44th and 26th globally.

CESE has 67 faculty members with national and international reputations, including one academician of the Chinese Academy of Sciences and two academicians of the Chinese Academy of Engineering. CESE also boasts two Creative Research Groups of the National Natural Science Foundation, one State Key Laboratory, one Ministry of Education Key Laboratory and one International Joint Laboratory. The faculty members have held over 40 positions as associated editors or members of editorial boards for international journals, 26 positions in international academic associations/societies and won many international awards. Currently, CESE consists of the Department of Environmental Sciences, the Department of Environmental Engineering and the Department of Environmental Management. There are six research fields, including: Atmospheric Pollution and Climate Change, Environment and Human Health, Water Treatment and Microbial-Technology, Water Pollution Control and Integrated Watershed Management, Environmental and Resources Economics, Environmental Planning, Management and Sustainable Development. In recent years, CESE has successfully developed the environmental-media (atmosphere and hydrosphere)-based whole-process research system and the international-treaty –compliance-oriented global environmental governance studies. Building on solid basic research, CESE aims to promote policy implementation and technology application.

The development of new knowledge on atmospheric chemistry and physics is the key to the mitigation of China’s severe air pollution. To meet this pressing need, CESE took the lead by proposing the ‘Air Pollution Complex model’ as well as the concept of ‘Environmental Civilization’. Moreover, PKU discovered new mechanisms for the maintenance of the atmospheric oxidation capacity with global importance. The relevant findings were published in prestigious journals like Science, Nature Geoscience and PNAS. A comprehensive air pollution control technology system has been established, which integrates field observation, numerical simulation and pollution control strategy development so as to discover the formation mechanisms of air pollution complex and achieve the technological innovation of regional air pollution control. Using the newly developed system, CESE has conducted a series of major observational research campaigns over the Pearl River Delta (PRIDE-PRD) and promoted the establishment of a regional monitoring network and an early warning system for air pollution control. Approved and adopted by the government, the monitoring network results have become instrumental to decision making in both PRD and Hong Kong. It is the first one of its kind in China and helps PRD to be the first polluted region in China for compliance of PM2.5 air quality standard. The air pollution in megacities and surrounding regions is of global importance. One typical case is the North China Plain, which is the largest territory covering many different provincial areas including Beijing. The coordinated provincial air pollution control thus has become a key strategic option. Based on a good understanding of the formation mechanism of air pollution, CESE developed strategies and methodologies for regional coordinated air pollution control, which successfully ensured the air quality during the 2008 Beijing Olympic Games in six provinces and cities. The theories and control technology system of complex air pollution developed by CESE also guaranteed the air quality for the Guangzhou Asian Games and the Shanghai World Expo, promoting the implementation of National Air Pollution Prevention and Control Action Plan. At present, CESE is organizing the country’s best experts to explore the formation mechanism and source identification of the heavy air pollution around Beijing.
The focus of China’s Clean Water Action Plan is on its major basins. CESE was the first to propose the concept of “All Materials Flux (AMF)” and has conducted the world’s largest AMF monitoring in the Yangtze and the Yellow River. Such research has successfully identified the lateral transport of soil carbon and land—atmosphere CO₂ flux induced by water erosion in China. The relevant findings were published in *PNAS*. CESE has developed a series of water pollutants removal techniques and integrated watershed simulation-optimization models, especially for nitrogen pollution, the most urgent problem in China. Several breakthroughs on the nitrogen water pollution control and treatment have been achieved in the past several years, including advanced nitrogen removal technology for municipal sewage, efficient nitrogen removal techniques for industrial wastewater, ecological treatment of sewage in rural area, and the control of non-point (distributed) sources of regional nitrogen contamination. The heterotrophic nitrification and aerobic denitrification microorganisms have been successfully isolated and cultured to solve the key problems of advanced nitrogen removal in municipal wastewater treatment plants. To facilitate the degradation of highly toxic organic pollutants from industrial wastewater, the macroporous functional carriers, which could enhance the microbial tolerance to toxic substances and high ammonia nitrogen, have been fabricated. The proposed biological-ecological multi-medium techniques greatly improve the abundance of denitrification functional bacteria and have been successfully used to treat the sewage in rural areas. The developed techniques have provided core technical support for the improvement of major basins in China, such as the South-North Water Diversion Project, the National Rural Safe Drinking Water Initiative, the Xiangjiang River heavy metal pollution treatment, the sediment treatment of the Yellow River and the Lake Dianchi eutrophication control.

CESE is concerned about public health risks due to environmental exposure. In view of the increasingly severe urban and regional environmental pollution in China, CESE takes full advantage of the many established disciplines of social, natural, and medical sciences at PKU, and promotes research in the field of environment and health by leading key research projects in collaboration with other disciplines, so as to establish the linkage between environmental exposure, internal exposure and health effect markers. Because of the palpable improvement of the air quality in Beijing during 2008 Olympic Games, CESE designed a “quasi-control” experiment by monitoring the biomarkers of inflammation, oxidative stress, immunity and vascular damage in order to find out the effect and mechanism of atmospheric pollution on human health. The results show that the oxidative effects among children, the cardiovascular system indicators among the elderly and cardiovascular function effects in healthy people are associated with atmospheric pollutants, especially the chemical composition of PM₁₀ and PM₂.₅. Based on the measurements of multiple organic pollutants in the placenta as an indicator of the fetus’s in utero exposure in a case-control study, pollutants such as PAHs were found to be the risk factor with a significant dose-response relationship. Such studies have been published in *JAMA, Lancet* and *PNAS*.

It is PKU’s tradition to work out China’s global environmental strategies. Directly involved in treaty negotiation, signing and compliance, CESE served as the technical team leader in the development of China’s Plan for the Montreal Protocol and the relevant Industry-Wide Solution and Control System, setting a benchmark for developing countries. CESE also took the lead in developing China’s National Implementation Plan of the Stockholm Convention, which has been adopted by the State Council and contributed greatly to the all-out ban on the production, importation and consumption of controlled POPs. A number of international awards were bestowed on CESE, such as the Gold Award from SEPA, UNEP/WMO Vienna Convention Award, Best-of-the Best Awards from US EPA, Twentieth Anniversary Ozone Protection Award from UNEP, Special Commendation Award and Technical Leadership Award from the secretariat of the Montreal Protocol.

CESE has been proactive in promoting international cooperation by designing major research programs and promoting joint research. As the site of the International Program Office, CESE has facilitated the implementation of the Monsoon Asia Integrated Research on Sustainability (MAIRS), one of the core projects under the framework of Future Earth. In addition, CESE has mobilized dozens of world-renowned research institutes to participate in such major research programs as CAREBEIJING, PRIDE-PRD and AMF, and taken the lead in drafting the report on the Impacts of Megacities on Air Pollution and Climate for the WMO and IGAC.

CESE at PKU aims to cultivate high-level interdisciplinary talents in environmental discipline and to train pro-active leaders with a solid academic foundation, a strong sense of social responsibility, and global vision. The guideline for talent cultivation incorporates healthy personality, diversity, environmental concern, self-actualization, responsibility, independent thinking, innovation and team work. Graduates from CESE have made great contributions to sustainable development in and outside China. Many of them hold important positions in UN organizations, NGOs, the Chinese government, and the world’s first-class universities and institutes.

CESE cordially welcomes job applicants and visiting scholars with expertise in related areas such as environmental science, engineering, health and management. Feel free to contact us:

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**Tel:** +86-10-62754126

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Nanjing Agricultural University
Welcomes Talents from All Over the World

Nanjing Agricultural University (NAU) sincerely invites you to join us in teaching and research.

About us
Nanjing Agricultural University is a university under the administration of the Ministry of Education and has been selected and included in the National “Double World-Class” University Construction Initiative. In the fourth-round national first-level discipline evaluation in 2017, it had four disciplines listed in Class A+, ranking itself the 11th of the top universities in China. In the ESI rankings, it had seven disciplines ranked among the top 1% worldwide, and two of the disciplines, Agricultural Science and Plant & Animal Science, among the top 1%. The US News 2018 has listed NAU the top 9 among the Best Global Universities of Agricultural Sciences.

Fields of research
The fields of research you are invited to join in are:

Agricultural Sciences including:

Science and Technology including:
Biology, Ecology, Environmental Science & Engineering, Food Science & Engineering, Landscape Architecture, Agricultural Engineering, Bioinformatics, and Computer Science & Technology;

Humanities and Social Sciences including:

You are also welcome to join us in the following Interdisciplinary Subjects:
Genomics & Phenomics, Microorganism-Botany-Pest Interactions, Food Nutrition and Human Health, Agricultural Equipment Engineering, Agricultural Informatics, and so on.

Position requirements
Doctorate recipients from world famous universities; post-doctor researchers from famous research institutes; and talents with professional titles of associate professor, professor or other higher titles, from world-famous higher institutions or research institutes, and with outstanding teaching and research achievements.

NAU will offer you a benefits package which is competitive among the universities in the local area and which will be negotiated in person.

Talent introduction policy
You will enjoy a talent allowance equivalent to those for the Zhongshan Scholars of NAU who are Zhongshan Distinguished Professor, Zhongshan Professor, Zhongshan Fellow, and Zhongshan Young Scholar, according to your qualifications for recruitment; or we may talk and agree on your annual salary.

Specific conditions of your research team, laboratory, graduate students to supervise, accommodation, and employment of your spouse are to be discussed in person.

Note: The Zhongshan Scholars is an NAU-developed open initiative to support career development and academic innovation for leading scientists of today and tomorrow, and it is a major initiative to construct a world-class university and to establish world-class disciplines, so as to realize NAU’s strategy of rejuvenation by talents. Recruitment is divided into four categories: Zhongshan Distinguished Professor, Zhongshan Professor, Zhongshan Fellow, and Zhongshan Young Scholar. Special talent allowance is provided for these outstanding scientists.

Application documents
Please prepare and email to rcb@njau.edu.cn the following documents for your qualification:
• a detailed CV, starting from your undergraduate education till the time of your application, including periods of continuous education, working experience, publications, research projects hosted or participated in, and certificates of awards;
• photocopies of diplomas, certificate of doctor’s degree, and certificate of current employment;
• Full texts of five representative papers published in the past five years.

Contacts:
Ms. Liu Hongmei
Telephone:
+86-25-84399039
Email address:
rcb@njau.edu.cn
Established in 1960, Huaqiao University (HQU) is one of China’s renowned institutions of higher education. With its two campuses strategically located in two famous hometowns of overseas Chinese, Xiamen and Quanzhou in Fujian province, HQU is a national key comprehensive university directly affiliated to the Overseas Chinese Affairs Office of the State Council of the People’s Republic of China.

We sincerely welcome topnotch talents from home and abroad to join us!

1. Vacancies


2. Qualifications

2.1 Basic Qualifications

Applicants are expected to be disciplined, honest, responsible, physically and psychologically healthy and dedicated to work.

2.2 Specific Qualifications

2.2.1 First Level

Applicants should be academicians of Chinese Academy of Sciences (CAS), academicians of Chinese Academy of Engineering (CAE), top-notch talents of the “State Special Support Plan”, or talents from home and abroad of the same level.

2.2.2 Second Level

Applicants should be valid candidates of the Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE), leading talents of the “State Special Support Plan”, Distinguished Professors of Chang Jiang Scholars, winners of National Science Fund for Distinguished Young Scholars, selected candidates of long-term state level talent projects like the Thousand Talents Plan, first person in charge of national key disciplines or key laboratories, chief scientists of major national projects, winners of National Science and Technology Award (ranking first), first-prize winners (ranking first) of Social Science Achievement Award for Higher Education of Ministry of Education.

Applicants should be no more than 55 years old.

2.2.3 Third Level

Applicants should be state-level selected candidates of the Hundred, Thousand and Ten Thousand Talents Plan, top-notch young talents of the “State Special Support Plan”, or selected candidates of the Innovative Talents Promotion Plan of the Ministry of Science and Technology, the New Century Excellent Talents Supporting Project of the Ministry of Education, the National Science Foundation for Excellent Youth, the state-level Thousand Youth Talents Plan, the Young Project of Chang Jiang Scholars Program, or the National Outstanding Young Talents Program.

Applicants should be no more than 45 years old.

2.2.4 Fourth Level

Applicants should be young talents who display the potential to be selected into high-level young talents projects like the National Science Foundation for Excellent Youth, the Thousand Youth Talents Plan, the Youth Project of Chang Jiang Scholars Program and National Outstanding Young Talent. Talents who are candidates of the above national youth projects will be directly recruited.

Or applicants should be associate professors or above from domestic renowned universities with academic achievements exceeding HQU’s requirements for exceptional promotion to professor (if the associate professor has served for more than 5 years, his or her performance of the past five years will be mainly assessed). For applicants from abroad, his/her papers and works and representative achievements in his/her own academic field in the past five years should be submitted for assessment; in principle, he/she should have published papers that’s equivalent to 1.5 times of HQU’s requirements for exceptional promotion to professor, or have published one full academic paper in journals of the Nature, Science or Cell publishing groups with impact factor (IF) over 20 as the first author or the first corresponding author in the past five years, or seven papers on SCI TOP journals as the first author or the first corresponding author in the past five years. Applicants should be no more than 40 years old.

3. Benefits

Full-time talents recruited will enjoy the following benefits.

3.1 Funding Support

<table>
<thead>
<tr>
<th>Level</th>
<th>Annual Salary</th>
<th>Housing Benefits</th>
<th>Scientific Research Allowances</th>
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<tr>
<td></td>
<td>Natural Science</td>
<td>Humanities &amp; Social Sciences</td>
<td>Settling-in Allowances</td>
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<td>Negotiable</td>
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<td>2</td>
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Note: 1. Unit: 10,000 RMB, all before taxes.
2. The above funds do not contain subsidies for projects supported by national, provincial or municipal programs, or the university’s awards for high-level achievements of over fulfilled scientific research task.

3.2 Working and Living Supports

3.2.1 Office, laboratory and related equipment will be furnished.

3.2.2 The talents who meet the HQU requirements for supervisors will be recommended and appointed as graduate students supervisors.

3.2.3 Temporary housing (or rent subsidies) will be provided in prior to housing subsidies.

3.2.4 HQU will also help with the job arrangement of the spouse as well as their children’s schooling.

4. How to apply

This global talents recruitment program is valid in the long run. Applicants are supposed to fill in the “Approval Form of Huaqiao University for Recruiting Distinguished Professor” (available via http://rsc.hqu.edu.cn/info/1039/2995.htm). Please send your word document to our talents recruitment email: hqursc@126.com with the subject “name + disciplines applied+ position level”.

5. Contact Information

Contact: Mr. Hong, Mr. Wang
Tel: 86-592-6161099, 86-595-22692370
Email: hqursc@126.com
Hibbitt Early Career Fellows Program

The Marine Biological Laboratory invites applications to its Hibbitt Early Career Fellows Program, designed to allow exceptional early career scientists the opportunity to establish their own research programs as an alternative to traditional postdoctoral positions. Postdoctoral scientists or recent Ph.D. graduates with proven research excellence will be given space, resources, and support needed to run independent labs under the mentorship of a network of scientists. Fellows will not have formal teaching or administrative responsibilities, but will be eligible to teach in MBL courses and workshops.

Fellows will take advantage of MBL’s unique research environment and resources, in the context of a collaborative and interdisciplinary network of investigators, and will be able to apply for external funding as P.I. or co-P.I. to add strength to their research programs.

Applications are encouraged in research areas that can benefit from and contribute to MBL’s strategic strengths in ecology and biological sciences (mbl.edu/strategic-themes).

MBL is especially committed to consideration of candidates from historically underrepresented talent pools, including women and minority candidates.

Applications will be accepted starting
March 15, 2018

For information and application:
mbl.edu/hibbittfellow

The MBL is an independent research institution located in Woods Hole, MA and is an affiliate of the University of Chicago.

MOLECULAR BACTERIOLOGY AND IMMUNOLOGY FACULTY POSITIONS

The Department of Microbiology & Immunology at the University of Texas Medical Branch (UTMB), Galveston, is seeking to recruit tenure-track faculty at the academic rank of Assistant, Associate or Full Professor with MD, PhD, DVM or equivalent degrees. The preferred research areas of bacteriology include bacterial genomics, virulence, antibiotic resistance, and microbiomes. The preferred research areas of immunology include the molecular basis of innate and adaptive immunity to pathogen infection and autoimmune diseases. The successful candidates should be highly productive with an established record of extramural funding or the potential to establish robust, funded research programs in the desired research areas. The successful applicants should be amenable to collaborative studies with other investigators studying the pathogenesis of infectious diseases, as well as teaching and mentoring graduate and medical students. Salary and academic rank are commensurate with experience, and an excellent benefits and start-up package is offered.

UTMB has several highly interactive research centers, biomedical institutes, and a national biocontainment laboratory with excellent infrastructure to conduct research at BSL2, -3 and -4 on diverse animal models of infectious diseases. The Department, with 31 full-time faculty members, is ranked among the top of its peer departments in NIH funding. Interested candidates should apply to Job id #59447, Professor via the UTMB careers website at https://www.utmb.edu/careers/

UTMB Health strives to provide Equal Opportunity Employment without regard to race, color, national origin, sex, age, religion, disability, sexual orientation, gender identity or expression, genetic information or veteran status. As a VEVRRA Federal Contractor, UTMB Health takes affirmative action to hire and advance women, minorities, protected veterans and individuals with disabilities.

Government of India
Ministry of Science & Technology
Department of Biotechnology

RAMALINGASWAMI RE-ENTRY FELLOWSHIP : 2017-2018

Applications are solicited from Indian nationals working in overseas research institutions for the “Ramalingaswami Re-entry Fellowship”, a Re-entry scheme of the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India.

Aim of the Fellowship

The scheme is conceptualized with the aim of attracting highly skilled researchers (Indian Nationals) working overseas in various cutting edge disciplines of Biotechnology (agriculture, health sciences, bio-engineering, energy, environment, bioinformatics and other related areas), by providing them an attractive avenue to pursue their R&D interests in Indian institutions.

Who is eligible to apply?

The applicant should possess a Ph.D. / M.D., or equivalent degree with an outstanding track record as reflected in publications and other recognitions and with at least three years of post-doctoral research experience of which last two years should be from overseas laboratory.

Only candidates (Indian nationals) working overseas are eligible to apply. Those who have already returned to India within one year of the closing date of this advertisement but without a job are also eligible.

Researcher’s upto 45 years of age as determined on closing date of application are eligible to apply.

Incentives of being a Ramalingaswami fellow

- This is a senior fellowship programme, and awardees are to be considered equivalent to Assistant Professor/Scientist-D level officers. Fellows selected are entitled to take up teaching/research assignments and supervising Doctoral/MS students.
- The scheme provides a consolidated monthly remuneration of Rs. 1,00,000/- p.m. In addition, a House Rent Allowance of Rs. 18,500/- p.m. is given to fellows. In case host institute provides accommodation to the fellow, no house rent allowance is admissible. The fellowship is taxable as per Govt. of India rules.
- Fellows will receive a research/contingency grant of Rs. 10.00 lakhs for the 1st & 2nd year; Rs. 7.50 lakhs for 3rd & 4th year; Rs. 5.00 lakhs for 5th year for purchase of consumables, minor equipment, international and domestic travel, engaging manpower and other contingent expenditure to be incurred for the implementation of research proposal which is a part of fellowship and Institutional overhead Rs. 50,000/ year.
- DBT encourages host institutions to provide medical benefits, transport allowance, leave travel allowance and other benefits as per their prevailing norms as applicable to their employees of the rank equivalent to Assistant Professor/Scientist-D out of their own resources/ funds.
- Fellows retain an option for drawing either the fellowship or salary if they are appointed at a suitable permanent scientific position. Fellows opting for salary can continue to avail the research /contingency grant with prior approval of DBT.
- Ramalingaswami Re-entry Fellows could take up fellowship at any of the scientific institutes/universities in the country. However, application should be duly forwarded by the competent authority of the host Institute. Fellows/Awardees can change his/her host institute only once during the tenure of the fellowship with the prior no objection certificate from the host institute who has forwarded the application (Director/Registrar/Vice-Chancellor/Dean as the case may be).
- Only one nomination will be considered.
- Awardees are eligible to apply for research grants to any of the funding agencies provided Co-PI is a permanent employee of the host institution.

Tenure of fellowship

Fellows can draw fellowship for a term of five years. Fellowship is further extendable for another two years on a fresh appraisal of performance of the fellow; only fellowship & HRA will be admissible during extension period. No research/contingency grant will be provided during the extension period. Those who are able to secure permanent positions will not be considered for 2nd term.

How to apply

Applications may be sent as per proforma downloadable from DBT website (www.dbtindia.nic.in) and duly forwarded by the competent authority to Dr. Meenakshi Munshi, Adviser/Scientist “Q” Department of Biotechnology, Block-2, 7th Floor, CGO Complex, Lodhi Road, New Delhi - 110 003, both as a hard copy as well as Soft copy. The applications not forwarded by the host institution will not be considered. Soft copy to be mailed at Email - rfsfellowship.dbt@nic.in only as a single pdf file (latest by 15th May, 2018).

Marine Biological Laboratory
The University of Chicago

Online at sciencecareers.org