Zhengzhou University is one of the key universities of the national “211 Project”, and of “World 1st University Project”, as well as of universities co-sponsored by the Henan Provincial Government and the Ministry of Education. It was born in 10th, July 2000 when the former ZZU, Zhengzhou University of Technology (ZUT) and Henan Medical University (HMU) merged into one, and now developed into a comprehensive university with 12 major disciplines, namely liberal arts, science, engineering and medicine, etc. It has over 50,000 full-time undergraduates, more than 23,000 full-time postgraduates and nearly 2,500 international students. Meanwhile, there are 30 first-level disciplines authorized to confer doctorate degrees, 3 professional doctorate programs, 28 postdoctoral research stations; 3 “first-class” disciplines and 6 national key (being cultivated) disciplines. ZZU is home to 12 national scientific and research platforms including state key laboratories, engineering research centers, engineering laboratories, etc.

Among a total of 5800 faculty members, there are 16 academicians of Chinese Academy of Science and Chinese Academy of Engineering, 2 members of Chinese Academy of Social Sciences and 4 overseas academicians as well as 78 elected into national talent programs (projects). They have formed a strong team with academicians and academic masters as the head, distinguished scholars as academic leaders, and outstanding PhDs as core talents.

Rooted in the broad and profound culture of the Central Plains of China and nurtured by blended diversified cultures and disciplines, ZZU people have developed the virtues of tolerance, lenience and can-do spirit and pursued ZZU’s mission and spirit of seeking truth and being responsible, thus forming typical school ethos- Perseverance, Trust-worthiness, Benevolence, Tolerance, Modesty, Prudence, and Critical Thinking and Diligence. Standing at this new starting line, ZZU decided where to go and laid out a three-step strategy to make it to the list of world-class comprehensive & research-oriented universities by the middle of this century. To achieve high-quality development, the university has made efforts to strengthen itself though talents. With the idea of “top-notch talents breakthrough, team integration, talent cultivation and structural optimization”, ZZU implemented Distinguished Professor Program to attract more academic masters, and Innovation Talent Cultivation Program to create an ideal environment for the growth of innovative talents.

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■ MEDICINE
Medicine, referred to as the earliest established discipline in Zhengzhou University, is also a first-class discipline in Zhengzhou University’s key construction. Over the past 92 years since Zhengzhou University was founded, numbers of distinguished experts and scholars have been devoted to teaching and clinical research, including Prof. Dong Minsheng, an otolaryngology expert; Prof. Shen Qiong, founder of esophageal cytology; Prof. Su Shouzhi, human parasitology specialist; and Prof. Zhang Xiaofang, inventor of the grid method for locating intraocular foreign bodies, and so on.

The college of medicine currently has 14 medical schools or departments and 11 affiliated hospitals, forming a modern medical discipline system such as basic medicine, clinical medicine, preventive medicine, pharmacy, nursing, stomatology, a complete training system for undergraduates, masters and doctors, and a fully functional medical research system.

The college of medicine has 5 national and 46 provincial scientific research platforms, including the State Key Laboratory of Esophageal Cancer Prevention and Control jointly established by the province and the ministry, and established a national telemedicine center. Five affiliated hospitals were selected for the National Capacity Improvement Project of Refractory Disease Diagnosis and Treatment, and two National Regional Medical Centers and five sub-Centers of Clinical Research Center were built to play a leading role in the region and serve the “Healthy China” strategy.

The College seeks outstanding scholars with strong commitment to excellence in teaching and research. Candidates in any area of medicine will be considered, with particular emphasis on candidates who will complement or extend the college’s strengths. Preference will be given to those with teaching and research experiences and Ph.D. in medicine or a related field. Duties include undergraduate or graduate teaching and research.

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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 PM$_{2.5}$ 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 areas, 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, PRID-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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