

Postdoc in Integrated Assessment Modelling and Carbon Neutrality Policy Analysis (PKU-IIASA Joint Postdoc Fellowship)

The Laboratory of Energy & Environmental Economics and Policy (LEEEP) in the College of Environmental Sciences and Engineering (CESE) at Peking University sincerely invites scholars devoted to the application and development of integrated assessment models (IAMs) to carry out PKU-IIASA joint postdoctoral research. This advertisement is valid for a long time.

About PKU-IIASA Postdoctoral Fellowship Program

Overview. The Peking University (PKU) – International Institute for Applied Systems Analysis (IIASA) Postdoctoral Program is open to applicants of all nationalities and is aimed at training highly qualified early-career postdoctoral researchers to carry out research in fields of mutual interest on both sides. We provide competitive salaries to conduct research at PKU for 12 months and at IIASA for 12 months with multiple exchange visits between PKU and IIASA. For more information and contact the professors above. See more introduction to the specific recruitment requirements as follows.

Qualifications. Applicants should have completed their Ph.D. requirements by the start date, but applicants close to completion will also be considered. We seek applicants with research experiences in or interest in energy & climate policy research based on data-driven analysis or integrated assessment models, with research priorities including but not limited to:

- Policy assessment of synergistic reduction in greenhouse gas and atmospheric pollutant emissions
- Optimization of technological pathways of deep carbon emission reduction for carbon-intensive industries
- Analysis of greenhouse gas emission reduction from agriculture, forestry and other land use sectors

Application materials

1. Peking University-IIASA postdoctoral program application form (completed under the guidance of the co-supervisor), fill out after downloading the attachment on the project announcement webpage, see the 2022 announcement: <https://postdocs.pku.edu.cn/tzgg/142945.htm> (at PKU) and <https://iiasa.ac.at/opportunities/pku-iiasa-postdoctoral-program> (at IIASA);

2. Personal resume;
3. Two letters of recommendation (must include a letter of recommendation from the supervisor during the doctoral period);
4. An endorsement letter or e-mail from each of the envisaged postdoctoral supervisors at PKU and IIASA.

Important Deadlines. The call opens on 2, September, 2022. All applications must be received by 30, November, 2022. Selected fellows will be notified in Jan, 2023. Preferred commencement of fellowship starts from June, 2023.

Potential collaborative supervisors

Dr. Hancheng Dai. Director of the Department of Environmental Management of CESE, and founder of **the Laboratory of Energy & Environmental Economics and Policy (LEEEP)**. Dr. Dai develops and applies the state-of-the-art IAMs, the IMED model (Integrated Model of Energy, Environment and Economy for Sustainable Development), to explore key questions on the mitigation costs of achieving ambitious climate targets and their co-benefits on improvements in air pollution, human health and resource efficiency. Dr. Dai was awarded the National Science Fund for Outstanding Young Scholars by the National Natural Science Foundation of China (NSFC) in 2022. For two consecutive years in 2020 and 2021, Dr. Dai ranked as the World's Top 2% most-cited scientists released by Stanford University and Mendeley Data. Dr. Dai is active in multiple international and domestic science programs by serving as the Lead Author of the Global Environment Outlook Sixth Edition (GEO-6) for Cities, Contributing Author of the IPCC 6th Assessment Report, Global Burden of Disease (GBD) Collaborator. Meanwhile, LEEEP has established substantive cooperation relationships with first-class research institutions in Europe, America, Japan, and China. For more information, please refer to the group homepage <http://scholar.pku.edu.cn/hanchengdai/group>

Dr. Fabian Wagner. Dr. Wagner is the Dean for Capacity Development and Academic Training (CDAT) at IIASA, and a senior research scholar in the Energy, Climate, and Environment (ECE) Program. In addition to being associate faculty both at the Complexity Science Hub and the Technical University in Vienna, he is also Editor-in-Chief of the journal Mitigation and Adaptation Strategies for Global Change (Springer Nature). Wagner is experienced in science policy, strategic planning, and research evaluation, and serves in a variety of advisory roles with national and international organizations. Between the years of 2014 and 2016, Wagner was the Gerhard R. Andlinger '52 Professor for Energy and the Environment at Princeton University's Andlinger Center for Energy and the Environment, and the Princeton School of Public and International Affairs. Before joining IIASA in 2004, he was a researcher with the Intergovernmental Panel on Climate Change (IPCC) located at the Institute for Global Environmental Strategies (IGES) in Hayama, Japan. Prior to that, he was a postdoc with the International Energy Analysis Group at the Lawrence Berkeley National Laboratory

(LBNL). Wagner received both his PhD (theoretical physics) and two master's degrees (mathematics, history and philosophy of science) from Cambridge University, UK. In 1998, he won the J.T. Knight's Prize in mathematics from Cambridge University. For more information, please refer to <https://previous.iiasa.ac.at/staff/staff.php?type=auto&visibility=visible&search=true&login=wagnerf> or his google scholar profiles <https://scholar.google.co.jp/citations?user=9Jp7TgMAAAAJ&hl=en>

Dr. Petr Havlík. Dr. Petr Havlík is Research Group Leader Integrated Biosphere Futures Group (IBF) within Biodiversity and Natural Resources Program (BNR) at the International Institute for Applied Systems Analysis (IIASA). He is leading a team of more than 20 scientists working around the global agricultural and forest sector economic model—GLOBIOM, which he developed during his early career at IIASA. Petr has secured and managed various research projects accumulating a total budget of around 9,000,000 EUR since 2011. His research interests are in designing solutions to satisfy the future needs of humanity in terms of food, fibre and fuel, climate change mitigation, and ecosystems services in general, within the limited resources of land and water under climate change. Petr is one of the main contributors to the land component of the new IPCC scenarios, and coordinates IIASA contribution to global land use related foresight and assessment activities within European Commission funded research projects, and with international agencies such as FAO, OECD and the World Bank.

Other Postdoctoral Programs

1. Boya Postdoctoral Fellowship

Peking University established the Boya Postdoctoral Program in 2016, aiming to attract outstanding young talents from all over the world to engage in postdoctoral research and achieve academic excellence. The project provides opportunities for young researchers to engage in post-doctoral research in science, information and engineering, social sciences, humanities, economics and management, and interdisciplinary fields. For more information: <https://postdocs.pku.edu.cn/tzgg/134996.htm>

2. Postdoctoral International Exchange Introduction Program

This program is initiated by the Office of the National Postdoctoral Management Committee. The project supports outstanding foreign (overseas) and overseas PhD students who come to China to engage in postdoctoral research. The number of national funding is limited to 300, and the funding period is two years. Since 2020, the postdoctoral international exchange program has been changed into two patterns, including direct funding and expert evaluation. For more information: <https://postdocs.pku.edu.cn/tzgg/135207.htm> (in Chinese)