



## **2014-2015 SCIENCE, TECHNOLOGY, AND PUBLIC POLICY FELLOWSHIPS**

The Science, Technology, and Public Policy (STPP) program offers fellowships for pre-doctoral and post-doctoral researchers in the stimulating environment of the Belfer Center for Science and International Affairs at Harvard Kennedy School. STPP is a research, teaching, and outreach program of the Belfer Center, devoted to the intellectual exploration of the essential and critical role that science and technology play in everyday life. To learn more about the program, fellowships, and to apply, please visit the STPP website: <http://belfercenter.ksg.harvard.edu/project/44>.

### **APPLICATIONS ARE WELCOME FOR FELLOWSHIPS IN THE FOLLOWING RESEARCH AREAS:**

#### **Technology, Security, and Conflict in the Cyber Age (The Cyber Project)**

Fellows will be expected to collaborate and work across diverse arenas to investigate the impacts and consequences of new information and communications technologies for international security, political and economic development, and social welfare. Research topics include cyber offense and defense, Internet policy and regulatory reform, infrastructure governance and protection, and privacy and surveillance.

#### **Energy Technology Innovation Policy research group (ETIP), joint with ENRP**

Fellows will work to identify and to promote energy policy strategies for reducing conventional air pollution, minimizing emissions of climate-altering gases, lessening dependence on imported fuels, stimulating economic development, and alleviating poverty. A wide variety of research interests in the electricity, transportation, and other energy sectors will be considered. In addition, ETIP is particularly interested in reviewing new applications for work on innovation in biofuels.

#### **Water-Energy Nexus Project**

Fellows will explore the role that policy and innovation could play to incentivize a more efficient use of water and energy resources in different sectors and/or regions. Water-Energy Nexus is a project of the ETIP research group.

#### **China and Environmental Sustainability Project, joint with ENRP and SSP**

Fellows will work to identify and promote policies that will contribute to a thoughtful use of China's natural resources (e.g., water, land) and/or to the adoption of cleaner and less carbon-intensive industrial and energy technologies. The work will focus on the challenges facing China in electrification, urbanization, and innovation policy. China and Environmental Sustainability is a project of the ETIP research group.

#### **Technology & Innovation**

The STPP program welcomes applications from researchers interested in investigating the process of technology innovation and the role of policy promoting it. This fellowship is not focused on a particular sector or geographic area, and particularly welcomes applications from scientists and technologists interested in public policy issues related to technology innovation.

### **Geoengineering and Climate Policy**

Geoengineering is the deliberate large-scale manipulation of the Earth's climate that might be used to partially offset the climate risks caused by emissions of greenhouse gases. Solar Radiation Management poses complex challenges for climate policy and for global governance more generally, not least because it appears that many if not most individual states could readily use these tools to alter the global climate. Fellows will be expected to work in collaboration with faculty at the Kennedy School along with international organizations such as the Solar Radiation Management Governance Initiative to improve understanding of the options for governance of geoengineering.

### **Science, Technology, and Globalization (STG)**

Fellows will undertake research, conduct training, provide policy advice, and disseminate information on interactions between technological innovation and globalization, with particular emphasis on implications for developing countries.

### **Agricultural Innovation in Africa (AIA)**

Fellows will study agricultural science and technology policy improvement through Africa's Regional Economic Communities (RECs). AIA Fellows will be expected to engage with policymakers and focus information dissemination on efforts to align science and technology missions and operations with agricultural development goals in the RECs, as part of the larger agenda to promote regional economic integration.

### **Geospatial Policy and Management**

Geospatial technology offers nations new capacity for insight and action for health and welfare, safety and security, democracy and civic engagement, and economic prosperity. Using the tools of strategic management, geospatial technologies have the potential to transform public and private investments in these domains into results many would agree would be unattainable by traditional means. Fellows in the Geospatial Policy and Management project will be expected to investigate potentials, pathways, and means for nations, industry, research institutions, non-governmental organizations, and citizens, collaborating and using the tools of geospatial analysis, to achieve such transformative outcomes.

### **Geopolitics of Energy, joint between ENRP and ISP**

The Geopolitics of Energy project focuses on topics related to the intersection of international politics, security, and energy. Fellows and visiting scholars will contribute to the project's efforts to explore the nexus of politics — broadly defined — and energy, and to highlight policymaker issues of upcoming importance in this arena. A wide variety of research interests will be considered, although the project is particularly interested in work related to the geopolitics of natural gas, resource nationalism, resource mercantilism, energy strategies of great powers, the future of OPEC, international institutions, and competition in the Arctic. Geopolitics of Energy is a joint project between ENRP and ISP, although potential candidates should apply via the STPP fellowship application process.

*Applicants holding a Ph.D. in Engineering or in the Natural Sciences are strongly encouraged to apply.*

You may contact Professor Venky Narayanamurti at [venky@seas.harvard.edu](mailto:venky@seas.harvard.edu), Professor Laura Diaz Anadon at [laura\\_diaz\\_anadon@harvard.edu](mailto:laura_diaz_anadon@harvard.edu), Dr. Nidhi Santen at [nidhi\\_santen@hks.harvard.edu](mailto:nidhi_santen@hks.harvard.edu), or Pat McLaughlin, the STPP Fellowship Coordinator, at [patricia\\_mclaughlin@harvard.edu](mailto:patricia_mclaughlin@harvard.edu) with any questions.

**The deadline for 2014-2015 fellowship application is January 15, 2014.**