



Attracting great minds to areas of great opportunity

# GLOBAL RESEARCH & INNOVATION FELLOWSHIP NETWORK (GRIFN)

# Trends in Development

- ① Development is becoming increasingly technical
- ① Scientists have become increasingly critical players in development
- ① Partnership is becoming the dominant model for development

# USAID Goals

- Translate the increasing importance of science, technology, and innovation (STI) to development practice
- Harness the talents of young U.S. and international scientists to tackle shared development challenges
- Link these minds to research opportunities in key countries

# GRIFN: A Network That...

- ⦿ Connects U.S. and host country students, scientists, and researchers
- ⦿ Builds relationships between their institutions
- ⦿ Generates new perspectives on both sides
- ⦿ Addresses shared challenges
- ⦿ Contributes to development science globally

# Where is GRIFN Working?

## ⦿ Initial Countries:

- Brazil
- Colombia
- India
- Indonesia
- Philippines
- Senegal
- South Africa

## ⦿ Goal: 300 students by summer 2014

# Who is a GRIFN Fellow?

- Ph.D. and Masters students and select university student/faculty project teams
- Drawn from top-tier U.S. universities
- Have NSF grant funding
- Multi-disciplinary and interdisciplinary
- Go on to become leading global researchers

# Who is a GRIFN Host?

- ④ You – identify productive opportunities in which students can apply their talents and ingenuity
- ④ Universities
- ④ Research Centers
- ④ Government Ministries
- ④ Non-Governmental Organizations
- ④ Private Sector



# What role could a GRIFN Fellow play?

- Independent research towards a common goal
- Designing research programs and protocols
- Science policy development
- Increase technical capacity
- Mentorship opportunities to younger students



# How do you request a Fellow?

- ④ Identify opportunities in your organization
- ④ Complete the online submission form
- ④ Once approved, your opportunity will be posted in the online GRIFN catalog
- ④ Fellowship candidates reach out to you to open a conversation

# Host Opportunity

- Institution
- Point of Contact
- Duration
- Work Environment
- Host Support
- Project Description
- Development Impact
- Institution Letter of Approval



## Global Research & Innovation Fellowship Network (GRIFN)

Office of Science and Technology

### Example of a Host Opportunity

**Institute:** University of Indonesia

**Point of Contact:** Professor Farida Pranoto, [fpranoto@ujakarta.edu](mailto:fpranoto@ujakarta.edu), telephone 04 021 786 7222, Department of Environmental Studies, Depok 16424, Jakarta, Indonesia

**Duration of Hosting Opportunity:** 6-12 months

**Supervisor:** Professor Farida Pranoto. I have been a Professor of Chemistry Science at the University of Indonesia for the last six years. My research interests are in source appointment of air pollution in urban areas of Indonesia and the broader Southeast Asia region. I currently run a research group of 5 people (3 graduate students and 2 postdoctoral researchers). I have published 23 papers both internationally and nationally, as well as presented at international and national conferences. I have received scientific funding from the Government of Indonesia and the World Health Organization.

**Work Environment:** We can provide a desk in a secure, shared office area at our university. Here, the student will have access to electrical power and internet via plug-in cable. The student will share this space with other researchers, including professors, postdocs, and students. As described in the project description below, the student will be assessing air quality samples at two sites in Jakarta. Our research team will have the student do this at locations we have used previously for the same purpose. These sites are secured areas, and we will assist the student in finding public transportation to and from this site.

**Host Support for Fellow:** Office Space, Local Transportation, Language Training, Other: Space and Access on university servers to create a website

**Project Description:** Particulate matter (PM; e.g. dust and smoke) air pollution poses a serious health risk to citizens of Jakarta, Indonesia. Also, PM pollution in the form of black carbon from combustion sources is believed to be a significant contributor to global warming. Our research group would like to assess the current progress of local measures to reduce PM mitigation measures by conducting a field campaign to quantitatively assess the sources of PM in Jakarta, Indonesia over the period of 6-12 months.

The proposed project focuses on determining air pollution sources in Jakarta using the techniques of x-ray fluorescence spectroscopy (XRF) and positive matrix factorization (PMF). The student will be responsible for using our sampling equipment (air pump, collection chamber, quartz filters) to take PM2.5 samples 3x per week at two pre-determined sites in Jakarta over a period of 6 to 12 months. The student will also use our XRF spectrometer to

# GRIFN Timeline

- ⦿ Now – Catalog open for opportunities
- ⦿ Late September 2013 – Catalog of opportunities released to students
- ⦿ Late September to December 2013 - Discussions commence between hosts and fellows
- ⦿ December 2013 to February 2014 - Placement agreements finalized
- ⦿ March 2014 – Fellows begin to arrive
  - Arrival dates will vary greatly with opportunity and Fellow's university calendar

# To become involved...

- Visit our website for host criteria and to post an opportunity  
[www.usaid.gov/GRIFN](http://www.usaid.gov/GRIFN)
- Questions and comments can be directed to [GRIFN@usaid.gov](mailto:GRIFN@usaid.gov)
- We look forward to working with you