GLOBAL NETWORK
65 Air Quality Monitors

40 Air Quality Fellows

80% posts exceed U.S. highest annual level

2 IAAs with EPA
DOS AIR GOALS

Put EPA-approved air quality monitors at posts where real-time data is not available to provide actionable information to protect U.S. personnel and their families.

Make data available internally and publicly to help reduce exposure & protect health.

Pair posts with U.S. air quality experts through Air Quality Fellowship for remote support.

Work with partners to advance science & share policy and technological best practices.
UNIQUE OPERATING ENVIRONMENT

• 270+ cities in 190 countries around the world
• Different host country regulations and air quality indices
• Varied audiences – Americans, local host country citizens, host country governments, international governmental organizations
• Security
HOW WE USE THIS DATA

- Protect our personnel
- Inform Americans abroad
- Inform greater community & civil society
- Inform and help host country governments at federal and local levels
SUCCESES AND CHALLENGES

Successes:
• Engagement with universities and private sector
• Engagement with host governments, non-governmental organizations, civil society, and international governmental organizations
• Greater awareness of air quality issues internationally

Challenges:
• Communications
• Data accessibility and transparency
• Data management
• Differences in standards
WHAT’S NEXT?

• Sensor testing and co-location studies
• NASA Space Apps Challenge – Surface to Air Quality Mission
• NASA AERONET, SPARTAN, and MAIA Project Cooperation
• UNEP Partnership
• Earth Challenge 2020, A Citizen Science Initiative
The Air Quality Fellows are **U.S. experts that agree to virtually “adopt” a post for 10-20 hours per month to transfer skills and build capacity within post and/or the host government.**

**Mission Thailand:**
Anna Y.C. Tai, State of Washington
Tai supported Mission Thailand in building a partnership with the Thai government to obtain data from their monitoring network and publish it in the EPA AQI. This familiar display is helping the embassy community and American visitors and residents in Thailand understand current air quality conditions more easily.

**Embassy Lima:**
Robert Judge, EPA
As the Ambient Air Monitoring Team Leader for EPA Region 1 (New England), Robert Judge used his 30 years of air quality experience to build capacity around air quality monitoring at U.S. Embassy Lima. He conducted analysis of the data from the embassy’s onsite monitor and provided insight into the differences between the American and Peruvian air quality standards.

**Embassy Ulaanbaatar:**
Bryan Paris, Louisville Metro Air Pollution Control District, Louisville, Kentucky
Paris has provided expert advice on maintaining the monitor and has also conducted data analysis. During a visit to the Embassy, Bryan helped with data analysis from the monitor and also met with the local government to discuss air quality reporting best practices. Air quality officials from Mongolia have visited Kentucky as part of the State Department’s International Visitors’ Leadership Program.

Fellow applications for 2019-2020 will be available at [https://www.state.gov/global-air-quality-fellowship/](https://www.state.gov/global-air-quality-fellowship/) in the coming weeks.
STAY IN TOUCH! WE WOULD LOVE TO WORK WITH YOU!

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