



Opportunities for Students of ENGINEERING

Numerous engineering students have received Boren Awards, studying languages, interning at various non-governmental organizations, taking relevant coursework, and researching engineering-related issues in Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. Below are examples of what engineering students have done overseas with a Boren Award:

- Researched aviation responses to natural catastrophes in Japan and the U.S., with an emphasis on the Great East Japan Earthquake
- Designed and developed personal digital assistants for rural community health workers, and evaluated their impact in partnership with the Mongolian University of Science and Technology
- Collaborated with local officials in Tajikistan to determine the effectiveness of water agencies in urban and rural areas; assessed Tajikistan's ability to maintain sustainable, reliable, safe domestic water
- Interned with a water and sanitation division to bring 10,000 toilets and water systems to local grade schools in Kenya while developing educational material on water and sanitation projects
- Compared calibration factors on lung phantoms at the University of Cincinnati and Rio de Janeiro State University, while determining the best radioisotope to use in these lung sets
- Attended the Middle Eastern Technical University in Turkey, while learning how to assess seismic structural vulnerability and researching low-cost earthquake resistant structures with a local expert
- Studied Swahili at the University of Dar es Salaam and worked in their Mechanical Engineering Workshop to design and produce a wrench storage solution to be installed on technical/agricultural machinery
- Enrolled in engineering, cross-cultural communication, and Arabic courses

Examples of Service

Boren Award recipients in engineering have fulfilled their service in a variety of federal positions including:

- A structural engineer doing research on a project funded by the Department of Defense to determine the effect of aging on the performance of munitions storage structures
- A water resources engineering manager for the U.S. Agency for International Development working on the planning, development, and implementation of infrastructure projects in Gaza and the West Bank
- An environmental engineer working on a project funded by the Department of Defense to clean up contaminated soil and groundwater at the former Twin Cities Army Ammunition plant in Minnesota
- A mechanical engineer working in the Army Research Lab in the Vehicle Technology Directorate, which aims to advance the capabilities and improve the reliability of Army air and ground vehicles
- A nuclear engineer for the U.S. Navy working on projects related to the design and maintenance of the Navy's nuclear powered fleet
- A flight test engineer for the Naval Air Systems Command, working to support Naval warfighters as a propulsion and mechanical systems expert for a fixed wing carrier-based aircraft