

Dr. Ryan Shelby  
Foreign Service Engineering Officer  
United States Agency for International Development (USAID)  
[rshelby@usaid.gov](mailto:rshelby@usaid.gov)  
[www.ryanlshelby.com](http://www.ryanlshelby.com)



Dr. Ryan Shelby is a Foreign Service Engineering Officer serving within the Office of Infrastructure, Energy & Engineering (OIEE) in USAID/Haiti.

Dr. Shelby's engineering work at USAID/Haiti involves the development and deployment of climate resilient infrastructure, WASH solutions, clean energy systems, and gender integration strategies to support low-carbon economic growth and climate-smart agriculture, and construction risk mitigation.

Within USAID/Haiti, Dr. Shelby leads a team which concentrates on (1) housing rehabilitation, (2) improving economic recovery through training youth in reconstruction activities, and (3) the incorporation of Disaster Risk Reduction (DRR) policies to reduce the vulnerability of households to extreme weather events and reduce the risk of cholera.

Prior to his current position at USAID/Haiti, Dr. Shelby was a Senior Energy Engineering Advisor within USAID's Office of Energy & Infrastructure (2013-2017) where he led the Powering Agriculture: An Energy Grand Challenge for Development initiative which focused on accelerating the development and deployment of clean energy solutions and business models for increasing agriculture productivity and/or value in developing countries for farmers and agribusinesses.

Moreover, Dr. Shelby supported the design, implementation, evaluation and grid integration of decentralized energy projects (<1 MW to 50 MW) in Pakistan and Power Africa focused countries. In 2014, Dr. Shelby was awarded a Meritorious Honor award for his efforts to support the success of Power Africa and its Beyond the Grid initiative.

Prior to joining USAID, Dr. Shelby was a 2013 Millennium Challenge Corporation (MCC) Science, Technology, & Innovation Fellow focused on the design and implementation of mini- and micro-grids to aid the expansion of modern electricity services in six Sub Saharan African countries: (1) Sierra Leone, (2) Liberia, (3) Ghana, (4) Benin, (5) Tanzania, and (6) Malawi.

Prior to his position at MCC, Dr. Shelby was a dual J. Herbert Hollomon and Christine Mirzayan Science & Technology Policy Fellow within the National Academy of Engineering (NAE) that focused on engineering education in the US and the application of system engineering to peace building initiatives in Haiti, Kenya, and Libya under the auspices of the NAE & U.S. Institute of Peace (USIP) Roundtable on Technology, Science & Peacebuilding.

Dr. Shelby completed his Ph.D. at the University of California, Berkeley in Mechanical Engineering where he focused on the user needs analysis, co-design and implementation of sustainable homes and energy systems that met the cultural sovereignty, economic, climate adaptation, and tribal sovereignty needs of Native American tribes in northern California.

Dr. Shelby received his M.S. in Mechanical Engineering from the University of California, Berkeley with a concentration in design, and his B.S. in Mechanical Engineering from Alabama Agricultural & Mechanical University with a concentration in propulsion systems.