Building Resilience in Dominica

In response to the devastation in Dominica caused by Hurricane Maria, ESC is working with United Nations Development Program (UNDP) to assist Dominica in building back better. Since October 2017, ESC volunteers have contributed over 6,500 hours to this project. Volunteers have developed a housing standards document and trained 130 Dominicans who went on to inspect over 29,000 damaged buildings. ESC continues to work with UNDP overseeing housing efforts and critical work on schools and a hospital. Volunteers also participate in comprehensive outreach to public, humanitarian agencies, construction community, banks and regulators.

Improving Health Systems in Sierra Leone

In 2014, the world’s largest Ebola outbreak spread rapidly across the West African nations of Guinea, Liberia and Sierra Leone. In response, King’s College London contacted ESC with a request for engineering assistance to support critical infrastructure improvements at Connaught and three other hospitals in Freetown, Sierra Leone. ESC deployed a series of experienced engineers to the field over a period of one year. The volunteers designed an installation of an oxygen factory, an emergency entrance to the hospital, improved water and sanitation facilities throughout the hospital campus; and constructed a tuberculosis clinic. This assistance improved the hospital’s overall operations and reduced intensive care unit and emergency room fatality rates by 30 percent.

Post-earthquake Assessment in Ecuador

On April 16, 2016 a 7.8 magnitude earthquake struck Ecuador. ESC partnered with NGO All Hands Volunteers with the goal of guiding a sustainable rebuilding process. Two volunteer engineers traveled to Canoa, Ecuador one of the hardest hit areas to provide engineering assistance and over 100 damage assessments in conjunction with the Ecuador Army Corp of Engineers. Our volunteers created a report recommending improved building practices to create safer residential and commercial building for years to come.

Post-earthquake Relief and Recovery in Nepal

In response to the 7.8 magnitude earthquake that struck Nepal in 2015, ESC partnered with two NGOS, Namlo and All Hands Volunteers, to provide appropriate disaster recovery and relief. Two volunteer engineers assisted Namlo in working with communities on temporary shelters, building assessments, water testing and long-term reconstruction planning. An additional three volunteer engineers assisted All Hands in providing technical guidance on the demolition of several buildings and created a demolition training manual for future use.