Overview
As a world-class research university, Purdue University is uniquely suited to help achieve the 17 UN Sustainable Development Goals to end poverty, protect the planet, and ensure prosperity for all. The Shah Family Global Innovation Lab within the Global Engineering Programs and Partnerships Office at the College of Engineering was founded to match Purdue talent to overcome these global challenges.

The Shah Family Global Innovation Lab
The Shah Family Global Innovation Lab (Formerly the Innovation for International Development Lab I2D) matches world-class capability with the most pressing global challenges. For sustainable success, The Shah Family Lab insists on market-based approaches, diverse collaboration, and scalability. Mechanisms include the award of internal seed grants, external grant writing, program development and management, and capacity building.

Lab Partners, Affiliations and Grantors
Bill & Melinda Gates Foundation
Volunteers for Economic Growth Alliance
Catholic Relief Services
Purdue Agriculture
Discovery Park, Purdue University

Purdue College of Pharmacy
Academic Model Providing Access to Healthcare

Global Sustainable Development Goals

Lab Partners, Affiliations and Grantors
Bill & Melinda Gates Foundation
Volunteers for Economic Growth Alliance
Catholic Relief Services
Purdue Agriculture
Discovery Park, Purdue University

Expand your world.
Global Engineering Programs and Partnerships

The Office of Global Engineering Programs and Partnerships forges international partnerships to connect Purdue students, faculty and alumni with opportunities for impact.

www.engineering.purdue.edu/GEP
The Shah Family
Global Innovation Lab
Supported Projects

Slow Sand Filters, Rural Potable Water Systems
Kenya, Tanzania, China, India, Colombia
Moi University, Tumaini Center, Maji Safi, University of Cartagena, Dr. Howarter, Dr. Jafvert (Purdue)

Solar UV Disinfection
Dominican Republic
Community of Las Canas, Dr. Applegate, Dr. Blatchley III, Dr. Camp, Jr. (Purdue)

Water Access to Empower Rural (Water)
Tanzania
Nelson Mandela African Institute of Science & Technology, Dr. Merwade (Purdue)

Earthquake Resilient Construction Using Logical Materials
Nepal
Catholic Relief Services, Dr. Laughery, Dr. Irfanoglu, Dr. Pujol (Purdue)

CRS Emergency Response E-Supply Chain Management System
Nepal
Catholic Relief Services, Dr. Yih, Mr. Wang (Purdue)

Cellphone-Based Detection of HIV Drug Resistance
Kenya
Dr. Yuan, Dr. Liu (Purdue), Kenya Program (Brown), AMPATH

Cholera DNA Test for Water
Haiti
Florida Emerging Pathogens Institute, Dr. Kinzer-Ursem, Dr. Wereley, Dr. Linnes, Dr. Clayton (Purdue)

Counterfeit Drug Detection
Haiti
Florida Emerging Pathogens Institute, Dr. Kinzer-Ursem, Dr. Wereley, Dr. Linnes, Dr. Clayton (Purdue)

Counterfeit Drug Detection
Haiti
Florida Emerging Pathogens Institute, Dr. Kinzer-Ursem, Dr. Wereley, Dr. Linnes, Dr. Clayton (Purdue)

Demand Sensing and Digital Tracking for Maternal and Child Health (MCH)
Uganda
Makerere University, Dr. Yih, Dr. Haque, Dr. Lee (Purdue), BMGF, Resilient Africa Network, Management Sciences for Health

Low-Cost Esophageal Stent
Kenya
Moi University, Dr. Brightman (Purdue), IU (AMPATH)

Kangaroo Mother Care Space Layout and Design
Dr. Yih, Dr. Visser (Purdue), Save the Children

Spectrometerless Smartphone Anemia Diagnosis
Kenya
Moi University Teaching and Referral Hospital, Dr. Kim, Dr Haque (Purdue), Vanderbilt University

A Rapid Molecular Diagnostic to Detect Early Onset Neonatal Sepsis
Kenya
Moi University, Dr. Linnes, Ms. Phillips (Purdue), AMPATH

Informal Education For Vulnerable Youth
Kenya
Tumaini Center, Moi University, Dr. Deboer, Dr. Radhakrishnan, Dr. Pastakia, (Purdue), Quanser

Low-Cost Grain Moisture Sensor Networked to Smartphones
Colombia, China
Universidad de Los Andes, Dr. Ileleji (Purdue), TONFUS

Mitigating Indoor Air Pollution
Kenya
Moi University, Dr. Boor, Dr. Wells (Purdue AMPATH, EPICS)

Pico Solar Dryer
Kenya
KALRO, Dr. Raman, Dr. Stroshine, Ms Chen (Purdue)

The Purdue Utility Program (PUP)
Cameroon, Uganda, Guinea
Guinea-ACREST, Makerere University, Dr. Lumkes (Purdue)

Hybrid Renewable Energy Systems
Cameroon
ACREST, WEBDA, Dr. Chen (Purdue)