PURDUE UNIVERSITY

The Shah Family

Global Innovation Lab

Putting engineering innovations to work for global sustainable development

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

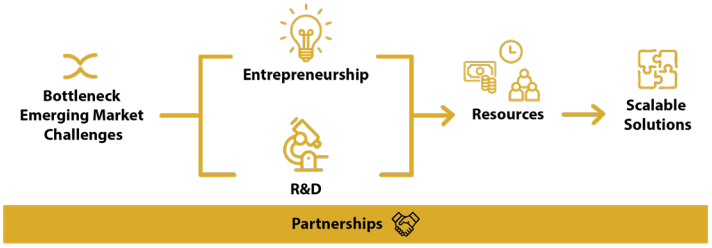
The Shah Family Global Innovation Lab

The Shah Family Global Innovation Lab (Formerly the Innovation for International Development Lab I^{2}D) 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.

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
- Purdue College of Pharmacy
- Academic Model Providing Access to Healthcare



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

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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

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Counterfeit Drug Detection

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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 Diagnositc 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, Mr. 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 Polution

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)