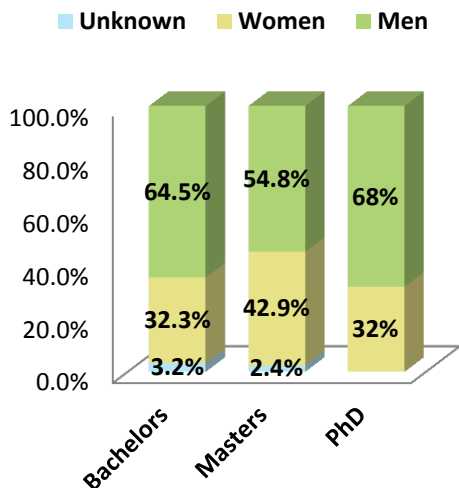




## Feed the Future Innovation Labs for Collaborative Research Country Profile

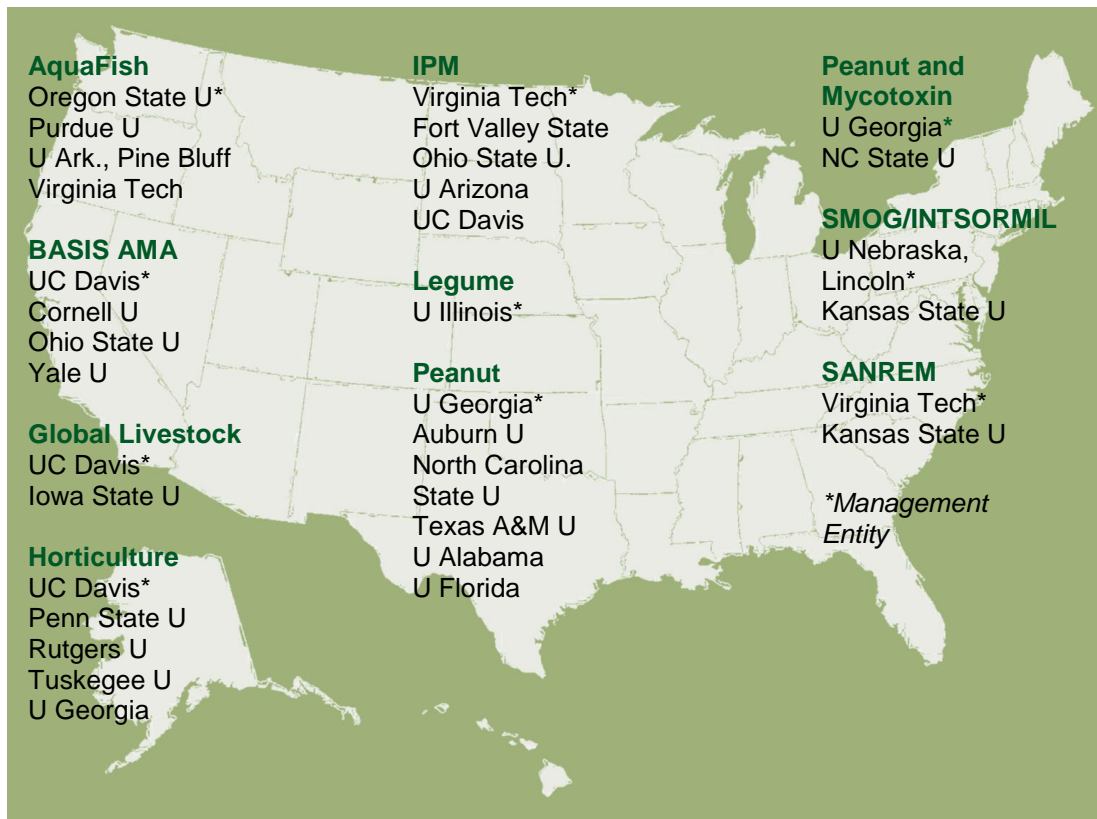
### Ghana



### Long-term Degree Training

The Feed the Future Innovation Labs for Collaborative Research and the former Collaborative Research Support Programs (CRSPs) have trained a total of **93 long-term degree students** from Ghana earning **98 degrees** in disciplines including Agronomy, Anthropology, Economics, Entomology, Pathology, Policy Analysis, and Soil Science. Bachelors (31.6%), Masters (42.9%), and Ph.D. (25.5%) degrees were granted. Women received over **36%** of those degrees. **University of Ghana** and **Kwame Nkrumah University** granted the highest number of degrees with 54 and 10 respectively. Students studied at local universities as well as U.S. Universities including Cornell U, Iowa State U, Kansas State U, Purdue U, Texas A&M U, Texas Tech U, U Arizona, U Florida, U Georgia, U Hawaii, U Nebraska, Lincoln, and Virginia Tech under AquaFish, BASIS AMA, Bean/Cowpea, Global Livestock, Peanut, Soil Management, SMOG/INTSORMIL, and SANREM.

### U.S. University Partners, Ghana (2007-2014)



Partners in Ghana  
(2007-2014)

	AquaFish	BASIS AMA	Global Livestock	Horticulture	Legume	IPM	Peanut	Peanut and Mycotoxin	SMOG/INTSORMIL	SANREM
Savanna Agricultural Research Institute (SARI)		•		•	•		•	•	•	•
Ghana Ministry of Food and Agriculture		•	•	•						
Crops Research Institute (CRI)				•	•	•	•	•		
University of Ghana		•	•	•		•	•			
Kwame Nkrumah University of Science and Technology	•			•			•	•		
African Center for Economic Transformation		•								
Agribusiness in Sustainable Natural Plant Products				•						
Aquaculture Research Development Center-Water Research Institute	•									
Council for Scientific and Industrial Research (CSIR), Ghana				•						
Farmer Line	•									
Food Research Institute				•						
Freedom from Hunger, Ghana			•							
Ghana Health Services			•							
Ghana Institute of Horticulturists				•						
Hunger Alliance of Ghana				•						
Noguchi Memorial Medical Research Institute							•			
Selasie Farms and Groceries				•						
University of Cape Coast				•						
University of Development Studies	•	•		•						•
Wa Polytechnic										•

Innovation Labs for Collaborative Research and CRSP Activities in Ghana (2007 - 2014)\*

**Aquaculture & Fisheries (AquaFish)**

- Assessing the nutritional impact of aquaculture policy in fish farming districts in Tanzania and Ghana
- Assessment of tilapia value chain in Ghana
- Characterization of pond effluents and biological and physiochemical assessment of receiving waters in Ghana
- Developing supply chain and group marketing systems for fish farmers in Ghana and Kenya
- Development and diversification of species aquaculture in Ghana
- Development of a cell-phone based seafood market information system (SMIS) in Ghana: Application to tilapia
- Enhancing the nutritional value of tilapia for human health
- Enhancing the profitability of small aquaculture operations in Ghana (*Associate Award*)
- Experimental pond unit assessment in Ghana
- Harnessing the opportunities and overcoming the constraints to widespread adoption of cage aquaculture in Ghana
- Identifying local strains of Nile tilapia (*Oreochromis niloticus*) that are adapted to future climate conditions
- Training program in propagation and hatchery management in tilapia (*Oreochromis niloticus*) and catfish (*Clarias gariepinus*) in Ghana

**BASIS Assets and Market Access (AMA)**

- Disseminating Innovative Resources and Technologies to Smallholders (DIRTS) in Northern Region, Ghana
- Promoting Adoption of Improved Production Technologies among Smallholders in Ghana via Coupled Credit and Index Insurance Contracts
- Understanding and Improving Financial Access for the Poor
- Understanding the impact of idiosyncratic shocks on farm productivity and household asset building and protection

## Global Livestock

- ENAM: Enhancing Child Nutrition through Animal Source Food Management

## Grain Legumes (Legume) Formerly Dry Grain Pulses

- Genetic improvement of cowpea to overcome drought and biotic constraints to grain productivity
- IPM-omics: Scalable and sustainable solutions for pest management of insect pests of cowpea in Africa

## Horticulture

- Concentrated Nutritional and Economic Enhancement of Ghanaian Traditional Diets, Using Orange-Fleshed Sweet potato Products
- Extension of Appropriate Postharvest Technology in Sub-Saharan Africa: A Postharvest Training and Services Center
- Sustainable Production of Specialty Horticultural Crops in Ghana for Income Generation and Increased Export Value
- Sustainable Technology for Orange and Purple Sweet Potato (STOPS) in Ghana
- Trellis I and III: Engaging US Students in International Development

## Integrated Pest Management (IPM)

- International Plant Diagnostic Network
- International Plant Virus Disease Network
- Toward the Effective Integrated Pest Management of Plant Disease Caused by Viruses in Developing Countries: Detection and Diagnosis, Capacity Building and Training, and Formulation of IPM Packages
- West African Regional Consortium for IPM Excellence

## Peanut

- Adaptation of Transgenic Peanuts with Resistance Against Aflatoxin for Production in West Africa
- Aflatoxin financial and health risks along the peanut marketing chain in Ghana
- Aflatoxin free Peanut-based Recovery and Functional Food
- Association of Aflatoxin Biomarker Levels with Health Status and HIV Disease
- Development of Methods for Establishing a Global Network for Aflatoxin Exposure
- Enhancing the Peanut Value Chain, from Processing to Marketing Peanuts and Peanut Products
- Enhancing the Peanut Value Chain, from Processing to Marketing of Peanuts and Peanut Products - Processing
- Enhancing the peanut value chain, from processing to marketing peanuts and peanut products - Product Development
- Enterosorbent Intervention Therapies for Populations at Risk for Aflatoxin Related Diseases
- Improved West African Peanut Production for Enhanced Health and Socioeconomic Status Through the Delivery of Research-based Production Systems in Ghana
- Overcoming Abiotic & Biotic Constraints to Yield, and Production of High-Quality Peanuts in W. Africa and Texas
- Systems Approaches to Enhance Peanut Production under Resource Limitation

## Peanut and Mycotoxin

- An Integrated Global Breeding and Genomics Approach to Intensifying Peanut Production and Quality
- Development and Validation of Methods for Detection of Mycotoxins Exposure in Dried Spotted Blood Samples
- Producer and Consumer Interventions to Decrease Peanut Mycotoxin Risk in Ghana
- Using Applied Research and Technology to Minimize Aflatoxin Contamination and Increase Production, Quality and Marketing of Peanut in Ghana

## Sorghum, Millet and Other Grains (INTSORMIL)

- Integrated Soil, Water, Nutrient and Crop Management Strategies for Improving Productivity in Sorghum and Millet Based Cropping Systems

## Sustainable Agriculture & Natural Resource Management (SANREM)

- LTRA-8: Improving soil quality and crop productivity through conservation agriculture production systems in West Africa

\*Activities occurred at varying points from 2007-2014



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