# UNITED STATES DEPARTMENT **OF AGRICULTURE (USDA): OPPORTUNITIES FOR** INTERNATIONAL **ENGAGEMENT AND** RESEARCH COOPERATION

# Programs of the Foreign Agricultural Service

The program matches Fellows with experts in their field at U.S. host institutions. Mentors visit fellows at home institutions to continue research collaboration.

Partners and Mentors include: U.S. Universities, government research facilities,

and non-profit institutions.

Fellowship duration: 10-12 weeks

**Mentor follow-up visit:** 1-2 weeks, about 1 year after the fellowship

**Examples of FY17 priority topics:** Agricultural Extension, Animal & Plant Health,

Biotechnology, Food Safety, Rangeland

Management

**Borlaug Special Initiatives in FY17:** Borlaug Cocoa, Borlaug CGIAR, Global

Research Alliance

- University designs and serves as research training provider
- Mentor works with Fellow to develop an appropriate work plan, site visits, and other arrangements to enhance the fellowship. Communication begins prior to arrival of the Fellow
- University provides logistical support for the fellowship, including arranging roundtrip flights, securing lodging with cooking facilities, etc.
- Mentor commits a significant amount of time each week for one-on-one work with the Fellow for the duration of the program. Mentor may assign other faculty members to assist with Fellow's training and research activities
- Mentor plans and coordinates with the Fellow a follow-up visit to the Fellow's home country and institution
- Typical program cost: \$40,000
- Benefits of participating in the program for U.S. host institutions:
  - Increase international collaboration
  - Complementary activities
  - Further exchange opportunities
  - Joint publications

#### **Global Research Alliance Fellowship**

- Reduce greenhouse gas emissions intensity in crop and livestock production systems
- Manage greenhouse gas emissions and carbon sequestration in agricultural systems
- Focus countries: Egypt, Ghana, Indonesia, Malaysia, the Philippines, Thailand, Vietnam,
   Colombia, Costa Rica, Honduras, Mexico, Nicaragua, Panama, and Peru

#### **Cocoa Borlaug Fellowship**

- Help countries become more competitive in cocoa and cocoa products
- Focus countries: Cameroon, Cote d'Ivoire, Ghana, Liberia, Nigeria, India, Indonesia, Malaysia, the Philippines, Vietnam, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, and Trinidad & Tobago

#### **CGIAR** (formerly, Consultative Group for International Agricultural Research)

- Collaborating with the CGIAR to promote science and increase food security worldwide by addressing food insecurity and malnutrition in developing countries or in value chains outside of traditional U.S. expertise.
- FAS partners with four CGIAR centers in Colombia, Mexico, Peru, and Jordan and WorldFish in Malaysia

#### **Borlaug Fellowship Advances Women in Science**

In 2017, FAS granted fellowships to 25 women; representing a diverse group of countries from across Africa, Asia and Latin America

So far in 2018, FAS has awarded fellowships to four female scientists



**Caption:** Dr. Brant Schumaker supervises Stella Atim in tissue trimming and DNA extraction from field tissue samples for brucellosis diagnostic test development.

# U.S.-China Scientific Cooperation Exchange Program (SCEP)

SCEP is a short-term research and exchange program between the United States and China, representing a vital component of our agricultural relationship with China

USDA and China's Ministry of Agriculture (MOA) are both responsible for recruiting six teams of six participants from their countries. Six U.S. teams travel to China and are hosted by MOA. Six Chinese teams travel to the United States and are hosted by USDA

**Participating partners**: U.S. universities, government agencies, international research centers, nonprofit institutions, and the private sector

**Exchange Duration:** up to 14 days

**2018 U.S. Topics**: Agricultural Water Use Efficiency, Risk Analysis, Emerging Diseases, Plant Variety Protection, Dairy Food Processing and Value Chain, Rangeland Conservation

**2018 Chinese Topics**: Sustainable Agriculture, Agricultural Trade and Investment, Risk Assessment and Product Safety, Improving Farmer Management, Germplasm Resources Conservation, Crop Germplasm Conservation and Development



# U.S.-China Scientific Cooperation Exchange Program (SCEP)

#### **U.S. Organizations Organize Training Programs**

- Design and schedule program itinerary for six Chinese participants
- Coordinate travel and transportation, meals and incidentals (M&IE), emergency health insurance, lodging, cultural activities, and communication
- Program Cost: Between \$42,000 and \$50,000

# U.S. Participants' Exchange Opportunities To China

- For the 2018 exchanges, USDA will cover international airfare to and from China
- China's MOA will cover local travel and transportation, meals, and lodging

U.S. team on rangeland management viewing simulated landscapes restoration.



**Caption:** Oakland port tour for Chinese team on public-private partnership.



## Scientific Cooperation Research Program

SCRP addresses agricultural challenges of small holder farmers by transferring scientific knowledge and technology to develop practical solutions.

SCRP funds grants to U.S. Land Grant Universities partnering with a host country university to collaborate on research, extension, and education projects.

- Period of Performance: not to exceed two years
- Grant Amount: Maximum \$40,000
- Eligible Countries: Bangladesh, Central America Region, East Africa Region, Ghana, and Kenya

## **Faculty Exchange Program**

- Improve course content and teaching in agricultural economics and agricultural science
- 375 plus participants to date in groups of 4-6 at each host university
- Past Participating Countries: Afghanistan, Armenia, Bulgaria, Kazakhstan, Kyrgyzstan, Romania, Russia, Serbia, Ukraine, Uzbekistan, Iraq, Botswana, Ethiopia, Kenya, Tanzania, Ghana, Mauritius, Nigeria, Senegal, Uganda Peru and Honduras
- Current funding for
  - agricultural economics in Ukraine
  - veterinary medicine in Africa
- One semester program with U.S mentor follow-on visits



**Caption:** Kenyan veterinarian Jesse Thuo in the lab at Iowa State University with his U.S. mentor Dr. Yuko Sato.

## **Cochran Fellowship Program**

- The Cochran Fellowship Program offers short-term trainings that:
  - Assist eligible countries to develop their agricultural systems to meet the food and fiber needs of their domestic populations
  - Establish and Strengthen trade linkages between overseas partners and agricultural interests in the United States
- All training must take place in the United States and must relate to agriculture, fisheries, and/or forestry
- Majority of the training priorities are recommended by FAS Offices overseas in order to support USDA-US government trade and capacity building activities and initiatives
- The Cochran Fellowship Program covers all expenses for Fellows upon arrival at the training site. The Program covers only international airfare for Fellows from the Eurasia region and those funded under special funding sources

**Training Providers include:** U.S. Universities, Federal and State Government Agencies,

U.S. Market Development Cooperators, and the Private Sector

Fellowship Duration: 2-3 Weeks

**Examples of FY18 Training Topics:** Overview of Agricultural Biotechnology and Biosafety, Food Safety

and International Standards, Fruit and Vegetable Post Harvest Loss

Prevention

## **Cochran Fellowship Program**

- Universities serve as training providers and submit proposals for 2-3 week long training programs, which
  are based on specific training needs of participating fellows
- Trainings are typically comprised of field observations, industry visits, hands on practicums, university courses and seminars, meetings with U.S. government agencies, and trade shows
- After implementation, universities report out on fellows evaluation, learning metrics, and outcomes
- Program Cost: Between \$35,000 \$50,000 (Depending on the Statement of Work)

#### What we look for in a training provider:

- Demonstrate experience in topic area and associated objective areas
- Well connected within the agricultural community
- Experience with region's and/or country's agricultural sectors
- Experience training international professionals

## **Cochran Fellowship Program**

From November 4-17, 2017, North Carolina State University provided Improved Adaptation to Drought and Dry Cereal Cropping training to four Fellows from Mali and one Fellow from Burkina Faso. The training program focused on developing new models for crop resilience, pesticide and irrigation practices, and building resilient food systems.

#### Reasons for Approval and Selection of North Carolina State University:

North Carolina State University has unique and specific expertise in climate-smart agriculture

North Carolina State University's proposal met specific needs of the Fellows

The budget was fair, reasonable, and comprehensive

North Carolina State University demonstrated its ability to carry out the requirements outlined in the

Statement of Work



## **EMP – Emerging Markets Program**

- \$10,000,000 annually
- EMP can fund 1) market assessments, 2) travel to and from the emerging market, and 3) technical assistance activities
- High Income countries are excluded (World Bank)
- Projects should have a focus on increasing or maintaining U.S. exports in the emerging market
- Universities should partner with agricultural exporting industries
- A contribution is required
- Applications accepted on a rolling basis for FY 18 funds. FY 19 funding announcement expected soon

#### **EMP**, continued

#### Project example:

Texas A&M University, AgriLife Extension Service was awarded \$288,000 to complete an assessment study - Brazil 2040: Identification and 25-Year Outlook for U.S. Export Opportunities, Food Distribution Systems and Infrastructure in Brazil

## TASC – Technical Assistance for Specialty Crops

- \$9,000,000 annually
- TASC funds projects to address trade barriers that prohibit or threaten exports of specialty crops. Types of projects may include pest and disease research, preclearance export protocol, study tours, labeling, quality and grading issues
- University proposals should demonstrate support from the specialty crop industry
- A contribution is recommended
- Applications accepted on a rolling basis for FY 18 funds. FY 19 funding announcement expected soon

#### TASC, continued

#### Project example:

- Washington State University (WSU) was granted \$179,713 in TASC funds to develop a standardized export work plan training for apple and stone fruit pre-packing evaluators to ensure access of U.S. fruit for exports to Taiwan, Mexico and Canada
- Rutgers University (RU) was granted \$356,559 in TASC funds to conduct field residue trials, collect additional samples from field trials, and analyze additional metabolites
- Michigan State University (MSU) was granted \$265,775 in TASC funds to avoid Maximum Residue Level (MRL) exceedance in overseas markets. MSU and the apple and cherry industries carried out MRL studies in both SW and NW Michigan using appropriate insecticides

# A University's Perspective: International Collaborative Linkages and Benefits to Study Abroad Programs

M. Alvarez, C. Bonsi, Z. Senwo, S. Elavarthi, L. Marsh, S. Tubene, D. Marsh



#### **Purpose of Study Abroad**

Broaden perspective to global citizenship

Increase minority participants from Agriculture & Related Sciences

Strengthen international awareness of undergraduates

Global collaboration & partnership & zonal knowledge



## Conceptual Framework of Program

(past) Trends and Drivers (future)

Ready for cultural shift/enabling policy

Global perspective

Global competency

Collaborative mind set

Cultural knowledge



#### **Specific Objectives**

Build international educational, research and extension partnerships

Develop international scholarly enrichment & faculty exchange

Link program to strengthen capacity for student training/faculty linkages



## Multidisciplinary team approach

Supporters USDA/NIFA USDA-FAS USDA-APHIS ARD Foundation USAID

#### **Participants**

- DSU/CATIE
- UMES/FAMU
- Tuskegee U
- Alabama A&M
- International partners/CATIE/EARTH/KNUST
- General Electric

#### Coordination

- Student recruitment
- Mission preparation
- Host institution agreement



#### **West Africa ASSESS**

 Provides program evaluation, capacity development in M&E, information dissemination and knowledge sharing for the USAID/West Africa's Regional Economic Growth Office (REGO) portfolio of foreign assistance.









Universities
Ministries
Private enterprise
Cultural Centers
Farmers
Community
leaders

#### **Public & Private Sector Partners**





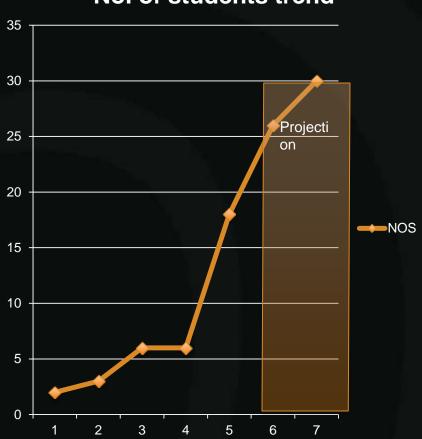
#### Range of topics covered

- USAID West Africa Regional Office, Accra
- Universities Ag. Research (CATIE/EARTH)
- Model Village/Community site
- Cocoa/Coffee Research Centers
- Historic Culture Sites



# **Experience & Accomplishments**

#### No. of students trend







## **Lessons Learned & Impact**

- Culture orientation enriching
- Broaden horizon/Personal Development
- Learning multidimensional perspectives
- Ideas for future plans
- NIFA selected project as an exemplary model
- USDA-FAS & APHIS in collaboration with ARD Foundation scaling up



## Improvement ideas

- More hands-on activity
- Extend the time
- Incorporate policy discussions
- Shadowing professors/ students based on research interest





# Thank you



# National Institute of Food and Agriculture, Center for International Programs

Otto Gonzalez Director, Center for International Programs, USDA/NIFA Patty Fulton
National Program
Leader, Center for
International Programs,
USDA/NIFA

#### **USDA/NIFA's mission –**

Invest in and advance agricultural research, education and extension to solve societal challenges

Focus is domestic, but some opportunities for global engagement; must advance domestic mission



# Why should USDA/NIFA be globally engaged?

To efficiently solve problems here we may need information and cooperation from beyond our borders

And in an increasingly interconnected world -

Solutions we develop for problems in the United States could benefit other parts of the world





# 3 Steps toward including an International activity:

Step 1 - See
If it fits within a
NIFA grant program



Step 3 – Identify potential collaborators, institutions, or locations

Step 2 – Determine how it helps you accomplish your research, education or extension objective

# There are opportunities to include international activities in your

- NIFA Capacity grants (mainly land grant institutions)
- NIFA Competitive grants (all eligible institutions)

#### Note:

Any international activity must advance U.S. agricultural goals Only U.S. institutions are eligible to apply for NIFA awards

# NIFA's largest competitive grant program – Agriculture and Food Research Initiative (AFRI)

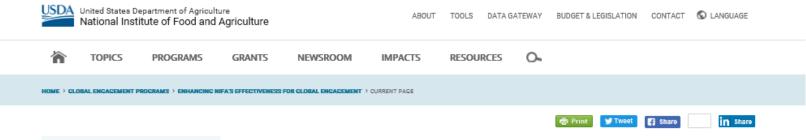
#### Global Engagement language for RFAs

"NIFA supports global engagement that advances U.S. agricultural goals. To attain the agency's goals for U.S. agriculture, promotion of global competence of our nation's future agricultural workforce, and safe and nutritious food security in a growing world, NIFA recognizes that collaboration with international partners can contribute to advances for U.S. agriculture

Thus, applications in response to this program's RFA may include collaborations with international partners, but may only be submitted by eligible U.S. institutions. Such applications may include subcontracts to international partners or other institutions. Applications must clearly demonstrate benefits to the United States"



### https://nifa.usda.gov/opportunities-global-engagement





#### Grant Opportunities for Global Engagement

ver the years, the Center for International Programs has provided guidance to others within NIFA to include global engagement opportunities for U.S. institutions in NIFA's grant programs. The table below provides a comprehensive list of RFAs and their associated international offerings in a simple format for potential applicants to peruse. The list of opportunities within RFAs has grown and will continue to grow as we strive to bring awareness of international issues to the agency.

#### NIFA RFAS OFFERING OPPORTUNITIES FOR GLOBAL ENGAGEMENT

RFAs	What's Offered	
Agriculture and Food Research Initiative - Foundational Program	International Partnerships or Engagement	
Agriculture and Food Research Initiative - Childhood Obesity Prevention Challenge Area	International Partnerships or Engagement	
Agriculture and Food Research Initiative - Agriculture and Natural Resources Science for Climate Variability and Change Challenge Area	International Partnerships or Engagement	



Agriculture and Food Research Initiative - NSF/NIFA Plant Biotic Interactions Program	International Collaboration			
Biotechnology Risk Assessment Research Grants Program (BRAG)	International Collaboration			
Citrus Disease Research and Extension (CDRE)	International Partnerships, Linkages, and Exchanges			
Develop Breakthrough Ideas and Enabling Technologies to Advance Crop Breeding	International Partnerships or Engagement			
1890 Institution Teaching, Research and Extension Capacity Building Grants (CBG) Program	International Partnerships, Exchanges, Student International Experiences, Sabbaticals, Training, Travel, Research Opportunities, Extension, and Education			
Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship (NNF) Grants Program	International Experiential Learning, Special International Study, or Thesis/Dissertation Research Travel			
Higher Education Challenge (HEC) Grants Program	International Education and Research			
Higher Education Multicultural Scholars Program (MSP)	International Partnerships or Engagement, Research, Study Abroad, Exchanges, Training, Trips, Faculty International Experiences			
Hispanic-Serving Institutions Education Grants Program (HSI)	Student Experiential Learning, Expanding Domestic and International Markets, and International Experiential Learning			
Organic Agriculture Research and Extension Initiative	Exploring International Trade Opportunities and International Partnerships, Linkages, and Exchanges			



International Education/Research (enhancement of US programs)			
loping New Market Strategies			
ntial Global Commercial Outcome			
national Partnerships and Engagement			
national Partnerships, Linkages, and Exchanges			

Grants	Programs	Newsroom	Resources	Tools	Search
Search for a Funding Opportunity	AFRI	Announcements	Calendar	PRS	Capacity Grants
Apply for a Grant	SBIR	Press Releases	Brochures	REEport	Organization Ch
Wait for Grant Notification	BFRDP	Blogs	Factsheets	POW	Glossary

- Collecting crop data twice a year rather than once by including southern hemisphere sites
- testing root stock in a wider range of climatic and ecological site conditions
- acquisition of genetic material from diverse crop cultivars or foreign livestock
- developing or learning new techniques at a foreign laboratory
- researching emerging and re-emerging plant and animal diseases in their origin countries
- testing new technologies in a wider variety of settings
- comparing the effectiveness of extension and technology transfer methods in different populations
- addressing food safety issues in international trade
- improving U.S. producer ability to compete in foreign markets
- providing experiential learning opportunities to U.S. students
- collaborating with researchers and foreign institutions with strong complementary expertise, or international recognition in a particular area



#### United States Department of Agriculture



#### Advancing U.S. Agriculture through Global Engagement



Engage Students and Faculty in Latin American Agriculture as a Model for Global Involvement and Career Development



Biology and Management of Plant-Associated Viruses and Endophytic Fungi in



#### Advancing U.S Agriculture through Global Engagement

National Institute of Food of Agriculture (NIFA) grantees are including international activities as an effective way to help achieve research, education, and extension objectives important to U.S. agriculture. Only U.S. institutions can receive NIFA grants, and any international activities must advance U.S. agriculture. The NIFAfunded projects described here are examples of how U.S. researchers and faculty through international collaborations and activities are achieving results valuable to the U.S. and the world. These projects help promote U.S. agriculture, advance trade, serve U.S. food security and food safety needs, and foster collaboration to address mutual interests within the global agricultural science community.



#### Entomological Studies of Zika Virus Transmission in Halti

Zika Virus (ZIKV) has emerged in the Americas where susceptible populations of new vectors of transmission may arise and the disease may spread more rapidly. To fully understand the range of mosquito species capable of transmitting ZIKV in the Americas, University of Florida researchers studied 2IKV transmission in Haiti, with an objective to determine the frequency of Zika infection in wildcaught mosquitoes, and in mosquitoes stored from previous collection. What was learned in Haiti could be applicable to Florida and other southern states of the U.S. due to the similarity of mosquito species. AFRI grant



#### Broadening Students Experiences and Expanding their Career Competencies through International Experiential Learning Opportunities

Faculty at Texas A&M University (TAMU) and Prairie View A&M University (PVAMU) teamed to broaden their students' academic experiences and career competencies through a faculty-led study abroad program in Namibia, partnering with the University of Namibia and Namibia-based research centers. Recruiting students traditionally underrepresented in study abroad programs was an important objective. Faculty included Namibians' knowledge of communitybased natural resource management strategies, and how to use these strategies to address food security issues. TAMU and PVAMU faculty with colleagues in Namibia developed course materials, and aimed to integrate learning from the study abroad experience into courses back at their universities. HEC grant



#### Expanding US Market Access in China's Evolving Agricultural and Trade Policy

To gain an understanding of China's agricultural trade policies and promote U.S. market access to China, a team from Virginia Polytechnic Institute (Virginia Tech) researched U.S. market access under China's evolving agricultural and trade policies. Working with Chinese collaboration, they traveled to China to interview both Chinese and U.S. leaders in agribusinesses. government agencies, and universities to determine trade constraints, regulations and other impediments to U.S. agricultural exports. This research will provide U.S. agribusinesses and agricultural exporters with knowledge to evaluate potential risks and opportunities caused by differential agricultural and trade policies and help U.S. agribusinesses expand market access into China. AFRI grant



#### Development of Woody Landscape Cultivars

People love ornamental plants that exhibit drought tolerance, provide environmental and ecological benefits, and have low maintenance requirements. Asian countries, especially China, have rich resources of ornamental plants. Plant breeders at the University of Georgia to strengthen the ornamental industry are developing new woody ornamental plant cultivars that thrive in drought and other environmental conditions. Their research includes collecting germplasm from plant species growing under extreme conditions. Two flex (holly) species growing under extreme conditions were collected from China and germinated. The Georgia researchers will test both species for their performance under drought and flooded conditions and use them for breeding lines. HATCH grant

Biology and Management of Potato and

Locoweeds (found globally) are toxic to grazing animab due to an alkaloid produced by fungiinside the locoweed plants. te University are working with locoweed endophytes in China stern United States, Fungal plants will be characterized By better understanding the h their plant hosts, New Mexico pe to develop aptions to help or control the problem of

#### and Eradication of 5. Production of Potato

ed. HATCH grant

industry depends upon the guids, economical, and to invasive agricultural pests the genus Globodera. The consortium of researchers, acators from three land-grant gon State University, Cornell ural Research Service, and Hutton Institute, Scotland; nd Agri-Food Canada). The pacity of the U.S. to respond potato production because non-grain food crop in the

#### Microbe Interactions in Soil to able Agriculture

destructive disease caused online) that causes lettuce e soil surface. The University boration from the California and Bayer Crop Sciences in certain soils are able to other diseases caused by ied a metagenomics, highapproach to identify the soile Verticillium wilt symptoms s's Salnas Valley, Ultimately, development of strategies troughout the w

Hybrid Wheat

#### Developing the Tools and Germplasm for

Wheat yields will need to increase to feed a larger global population with increasing dietary needs. To improve wheat production, faculty from the University of Nebraska-Lincoln, with collaboration from the International Maize and Wheat Improvement Center (CIMMYT) in Mexico. Texas A&M University, the University of Hohenheim (Germany), Kansas State University, and Genetics and Crop. Plant Research - IPK (Germany), conducted research to develop the necessary knowledge-base, germplasm, and heteratic pools to support the development of hybrid wheat. This project, a part of the NIFA's participation in the International Wheat Yield Partnership (IWYP) is expected to help create the scientific and germplasm foundations for successfully launching the hybrid wheat industry in the United States. AFRI grant



#### Strengthening U.S. Agriculture with Multidisciplinary International Undergraduate Research and Extension Experiences

The University of Tennessee is bringing together 14 undergraduate students and 10 mentors in a 3-year experiential research and extension project to investigate smallholder farms practicing conservation adjacent to the Vaca Forest Reserve in Belize. They will conduct projects on crop production and soils; social and economic systems; and wildlife, forestry, and ecosystem services. An agro-ecological approach will be used to foster systems-level thinking and develop transdisciplinary skills. Their goal is to develop leaders in agriculture and natural resources research and extension who can synthesize the complexity of agricultural systems to keep U.S. agriculture at the forefront of addressing sustainable global food security. AFRI grant



#### U.S.-U.K. Collaborative Research: Host Resistance to Avian Pathogenic E. coli

Avian collibacillosis, a disease caused by the bacterium Escherichio coli (Avian Pathogenic E coli -APEC) is responsible for much mortality in poultry flocks. Scientists from Iowa State University and the Roolin Institute, University of Edinburgh (United Kingdom) formed a collaborative research team, leveraging their respective expertise in poultry immunology, genomics, and microbiology. The goal was to reduce the impact of APEC on the poultry industry in the United States and the United Kingdom through development of complementary veterinary and breeding control strategies based on a thorough understanding of host functional response to E. coli infection. AFRI grant

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#### rough Global Engagement



U.S.-U.K. Collab: Mycobacterial Transi Dynamics in Agricultural Systems: Inte Phylogenetics, Epidemiology, Ecology

esearchers at Cornel University formed a colla with scientists in the United Kingdom (U.K.) to inv ycobacterial transmission in agricultural system ejective was to develop a quantitative methodo corporating whole genome sequence data into b ansmission models for infectious diseases, int cology, economics, molecular biology, and epider ue to their valuable collections of data and isolate S. and the U.K., with experts across multiple s elds, the team was able to apply these metho odels to better understand the principles and d everning transmission of mycobacterial infection

#### rn More About NIFA's Opportunities for Global

A's Center for International Programs est nections between NIFA and other organizations, U.S. Agency for International Development (USA) Agriculture Organization of the United Nation AR system of international assimiltural research. the World Bank; and with agricultural research a other countries to globally advance the resu erience of NIFA and the institutions it serves, and s important to U.S. agriculture. To find out mor 's international collaborations and opportunitie rent NIFA grant programs visit us on the web: ps://nrla.usda.gov/program/global-engagement-program

- Global Engagement Programs
- Enhancing NIFA's: Effectiveness for Global
- Grant Opportunities for Global Engagement
- Developing Global Partnerships

ntact: Otto Gonzalez, Director, Center for Interna perams, otto gonzalez@nfa.usda.gov

March octobre fire Orientals, tight of files https://nifa.usda.gov/resource/advancingus-agriculture-through-global-engagement

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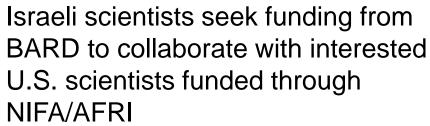
## **USDA/NIFA** is currently partnering with –

- Biotechnology and Biological Sciences Research Council of the United Kingdom (BBSRC)
- International Wheat Yield Partnership (IWYP)
- U.S.-Israel Binational Agricultural Research and Development Fund (BARD)
- Food and Agriculture Research Initiative with Ireland & Northern Ireland
- USAID Partnerships for Enhanced Engagement in Research (PEER)
- CATIE Tropical Agricultural Research and Higher Education Center (Centro Agronomico Tropical de Investigación y Ensenanza)
- CGIAR Collaboration



#### **BARD**

- Water
- Food Safety



(U.S. scientists participate through regular NIFA RFAs).



PEER Variety of research topics in USAID assisted countries in Africa, Asia, Middle East, and Latin America (Developing country scientists apply to USAID to work with U.S. scientists who already have U.S. gov't. grants)



#### Ireland and Northern Ireland

- Pests and Beneficial Species in Agricultural Production Systems
- Animal Nutrition, Growth, and Lactation
- Animal Health and Disease
- Animal Breeding, Genetics and Genomics
- Animal Well-Being
- Understanding Antimicrobial Resistance
- Food Manufacturing Technologies

(U.S. scientists participate through regular NIFA RFAs)

**CATIE** (Centro Agronómico Tropical de Investigación y Enseñanza – Tropical Agricultural Research and Higher Education Center) with residential

campus in Costa Rica, is interested in hosting

- faculty-led student study/research abroad
- collaborative research with visiting faculty
- post-docs and doctoral students
- sabbaticals

and other activities consistent with USDA's MOU with CATIE. (U.S. researchers/educators can propose to include in their USDA/NIFA grants)

#### **CGIAR Collaboration**

USDA/NIFA and the CGIAR global system of 15 research centers are exploring:

- Opportunities for USDA/NIFA-supported researchers to spend time undertaking research at CGIAR centers; and
- Opportunities to share information and propose and participate in collaborative research that can improve food and nutritional security, improve resources and ecosystem services.

(U.S. researchers/educators can propose to include in their USDA/NIFA grants)



# Collaborations being developed with European Joint Programming Initiatives

as Antimicrobial Resistance

- "JPIs"









# USDA United Stone Department of Agriculture Agriculture Of Pood and Agriculture Of Pood and Agriculture Of Pood and Office Offic

NEA is committed to strengthening American agriculture through global engagement. NEA continues to develop international partnerships and activities that promote U.S. agriculture, advance trade, serve food security and U.S. food safety needs, and foster collaboration to address mutual interests within the global agricultural science community.

Applicants to NIFA programs have opportunities to include international collaborations or activities within their proposals. Applications must be from U.S. institutions, and the proposed international collaborations or activities must advance U.S agricultural goals.

#### Step 1: See if your interest fits within a NIFA Competitive or Capacity grant program

Agriculture and Food Research initiative (AFR), KFA: flagning and largest competitive grant program has global engagement opportunities. NFA supports plobal engagement that advances U.S. agricultural goals. Applicants to AFR Requests for Application (BFAs) may include collaborations with international partners, but applications may only be automated by eligible U.S. institutions. Such applications may mitude automated institutions. Such applications may include automated institutions. Such applications may include automated to international partners or other institutions and most clearly demonstrate benefits to the United States. Additional information is provided on the AFRI international Partnerships welpage

Other competitive grant programs with opportunities for teternational activities include 1800 Institution Teaching, Research, and Extension Capacity Grants Higher Education Challenge Grants IREGI, Botachnology Risk Assessment Grants (BRAGI), Clinus Disease Research and Extension (EDRE) Food and Agricultural Sciences National Needs Felturables (INNE). Higher Education Multicoltural Scholers Programs (MSPIx Higher Education Multicoltural Scholers Programs (MSPIx Higher Education Multicoltural Scholers Programs (MSPIx Organic Agriculture Research and Extension Institutions (CREIL). Small Business Innovation Research (GBRE Specialty Crop Research Institute (CREIL).

For Capacity programs (primarily land-grant testitutions), talk with your State Experiment Station Director or Extension Director Many NFA awardees have included international collabcrations or activities in their capacity grants.



#### Step 2: Determine how an international collaboration or activity is important in helping you to accomplish your research, education, or extension objectives

Some wareighes hompast NFA wavefales include. Collecting clop data helice a year sether than once by including southern hemisphere size; testing root stock in a wider range of climatic and ecological disc conditions, acquisition of generate material from diverse crop cultivers or foreign feedback developing of learning new techniques at a foreign flectoratory, restaching emerging new techniques at a foreign flectoratory, restaching emerging new emerging plant and arrival diseases in their origin countries; testing new technologies in a wider warrier of settings comparing the effectiveness of extension and softwareign transfer methods in inflerent populations addressing flood selfey issues in international bade improving US, produce adulty to compate in fossign markets, providing experiental learning opportunities to US, students and collaborating with researchers and foreign institutions with stonig complementary experience, and foreign institutions with stonig complementary experience.

#### Step 3: Identify potential collaborators, institutions, or locations

relocate to identify potential collaborators or foeeign utilizing your own networks and professional contacts be in your NAA peoposals as expenyingher You may also action partnerships NEA has developed with foreign to and international organizations with whom NUFA has sense of mutual interest. These partnerships enable inters to collaborate with foreign researchers that have min their own organizations, or help NEA awardees ineligic collaborators they may work to write into their tits.

#### shal Partnership

entity partnering with U.S.-Israel Rinational Agricultush and Development Fund (RARDX to insisty hard water sort and fined safety projects). Johnst Kingdomis Rogs and Biological Sciences Rinsearch Coursel (855RC) support animal disease research Literard and Northern address agricultural pasts and beneficial species, intion and growth, and animal health and disease, and fingical agricultural research and teaching center with campos in Costa Rica, interested in hooting Saculty-Joh diseases his about a collaborative interests with tally post-fines and discrimed duslams, substaticals, and vites as adomitted in CATE's Memorandum of Undersith USDA. US scientists oxidal prepiech to support such with CATE under their MEA awards.

eformation on these and other NFA global partner se visit our website.

Luida gos/devimir-log-global partnershare .

urbaseships for Enhanced Engagement in Research rugram. PERI is a competitive great program that entits in developing contiens to apply in the U.S. in Memoriational Development (USAO) for funds to seconds and capacity building activities that will be it in partnership with U.S. Government funded sciendeveloping country scientists seek out active NIRA All USAIO PERI funding goes to the developing country to support their cultabosation with the NIRA quartee.

information about this program and to see the ourrent Dous arress and PCDR-eligible countries, planse visit the Academies of Sciences, Engineering, and Medicine of PERs at

nationaliseackerous ang/nga/pros/inducation

 currently-active NEA grantee, and you know of a one of the eligible countries and would be to collaborate with entire to entire the sciencial with your to develop a pre-proposal to PER.

#### Examples of NIFA Projects that include Global Engagement

Using competitive and capacity funding, NITA is providing support for global engagement in many projects. Examples include:

- Scientists at the University of California-Riverside collaborating with colleagues is tracel to develop a regional water reuse decision support model that are reduced the impacts of using treated agricultural dramage waters and treated wastewater on agricultural sustainability and water supply reliability.
- Faculty at the University of Arkenson, Texas AAM University, and Texas Tech University are collaborating on a project that reaches graduate student in Secd and agricultual sciences by globalizing the controls in the areas of Global Horitcultur. Sectionals International Development, and Harran Health and Nutrition.



Researchers at lows State University collaborated with researchers at the Books institute of the University of Edinburgh, in Scotland to better-understand resistance to Avian Pathogenic E. coll in positry



Researchers at Kansan State University collaborated with researchers at the University of Gasigous in Scotland on how to better prepare to protect cattle from buryaviruses transmitted by recognitives.



For more information please visit but extrate at tips, ands unde another property in contact Otto Contrales, the Director of the Center for International Property, or Contrales the Director of the Center for International Property, or Contrales Director at the Center for International Property.

https://nifa.usda.gov/resource/globalengagement-opportunities





For more information please visit our website of https://rola.unda.gov/program/plobal-engagement.gograms or sortest Otto Geograms. The Director of the Center for International Programs, at Otto Geograms (Bridge unda.und





### **USDA/NIFA's**

### Center for International Programs works to:

- Enhance global engagement of NIFA and the institutions it serves
- Develop global partnerships
- Build capacity at home and abroad

Sign up for our NIFA **International Programs listserv** – get announcements of USDA/FAS opportunities and info on USDA/NIFA opportunities

Contact: Otto.Gonzalez@nifa.usda.gov

Rose Gregory at rgregory@nifa.usda.gov

Patty Fulton at pfulton@nifa.usda.gov

For info on NIFA global engagement opportunities

https://nifa.usda.gov/program/global-engagement-programs

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