



Institutional Infrastructures for Facilitating International Research

Presenters

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Why International Research Is Important

Access to unique resources and knowledge

- Assessing Climate Change
- Biodiversity
- Unique Instrumentation and facilities

International Metrics in University Rankings*

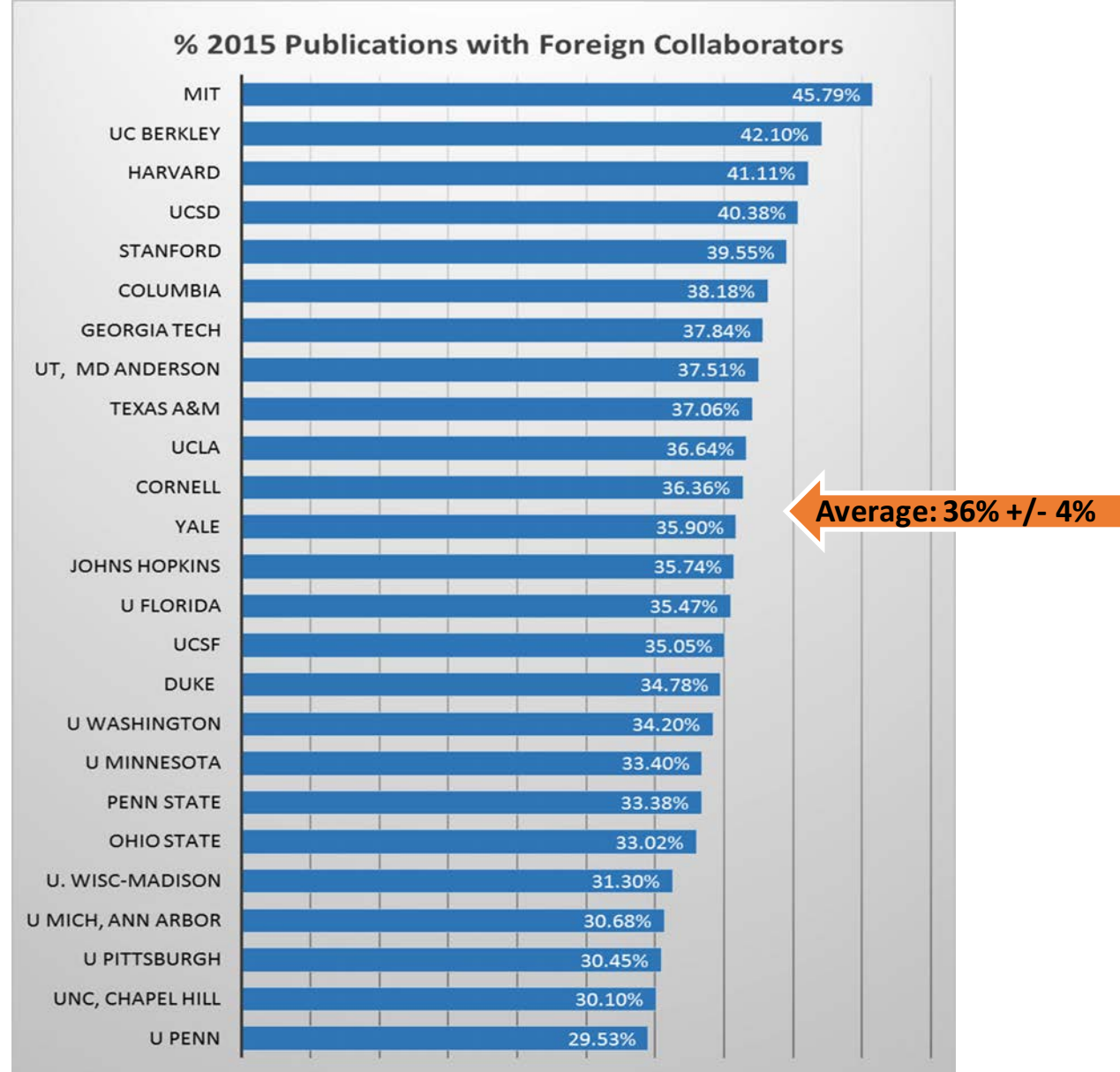
- International Students
- International Faculty and Staff
- Papers presented in International Conferences



A word about Metrics

Benchmarking against the HERD Top 20

Source: SciVal Collaboration Analysis by Institution





Views of 39 U.S. Senior International Officers (SIOs): Changes to Enhance University International Research

Change % “yes”

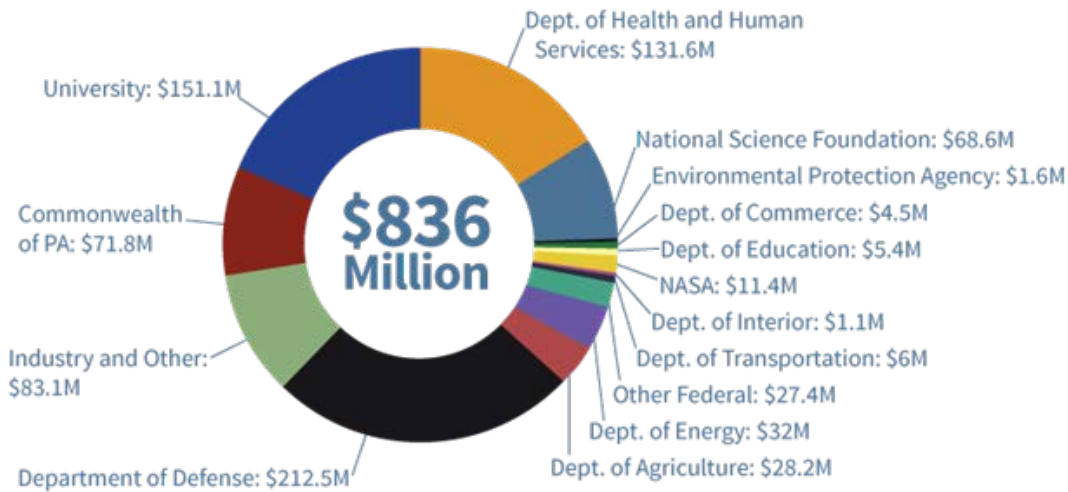
Additional opportunities for funding by foundations	77.5
Additional home university funding (including cost share)*	69.2
Additional opportunities for funding by other U.S. government agencies	66.7
Additional opportunities for funding by USAID	64.1
Additional opportunities for funding by corporations	64.1
Greater integration/coordination of campus resources*	64.1
Increased highest-level university administrative support/commitment*	59.0
Additional willingness of faculty/staff to participate	56.4
Additional opportunities for funding by international organizations	56.4
Increased support/commitment at school/college or departmental level*	53.8
Additional opportunities for NSF-sponsored international research	51.3

***Changes the Institutional Research Leadership can directly impact.**



PennState

Sources of Research Funding FY 2016



- 24 campuses; 17,000 faculty /staff; 100,000 students; a teaching hospital; >500,000 active alumni; an online World Campus
- 7,728 international students at the University Park campus
- Ranked 52nd internationally in the 2016 Center for World University Rankings.
- Ranked 13th in the U.S. by Institute of International Education
- ~1,600 students annually engaging in Education Abroad Programs





International Research Complexities

- Local customs and traditions
- Language and translations
- In-country Authority (Laws, processes, etc.)
- Contract Language
- Import / Export
- Non-profit Status / U.S. Grantee Obligations
- Passports and Visas
- Health and Safety

Source: Sites, J. D. J. (2006). The challenges and opportunities of international research. Research administration and management. E. C. Kulakowski and L. U. Chronister. Sudbury, Mass., Jones and Bartlett.

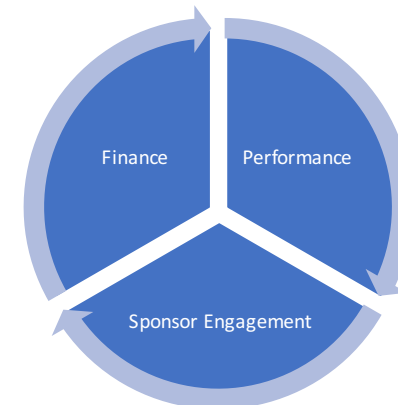


Path of an International Research Project



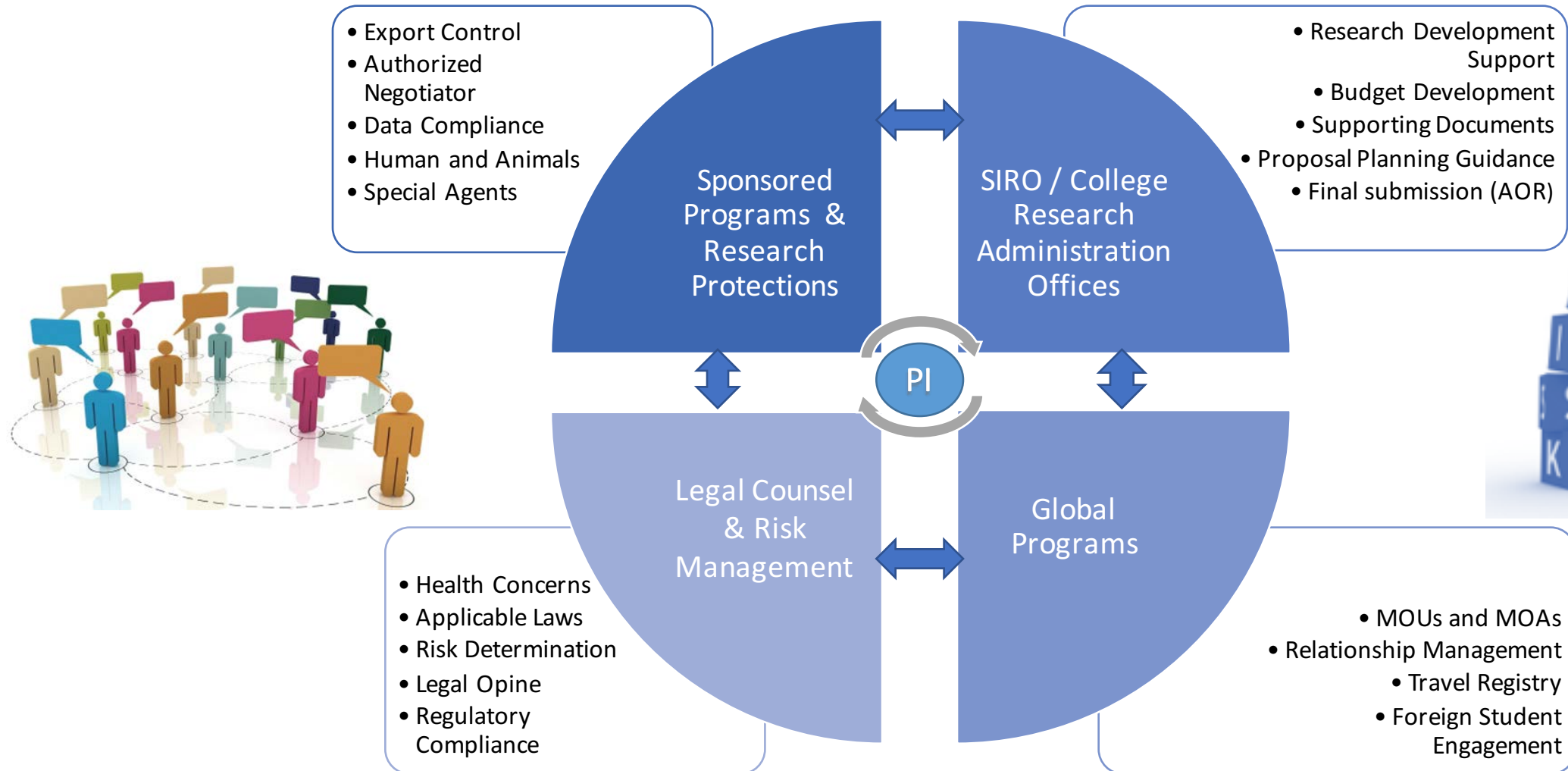
Post Award Management

What we want a PI to believe



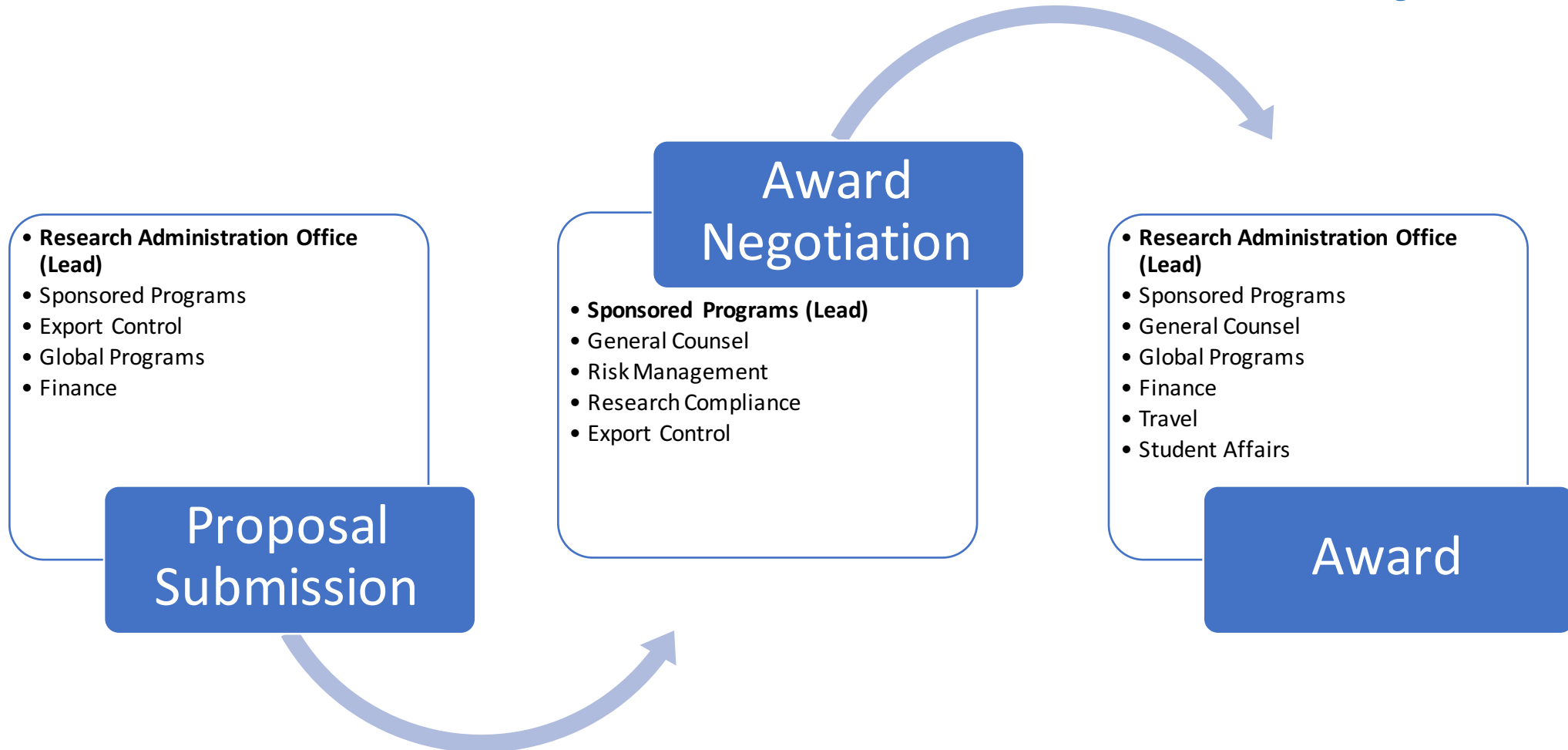


Penn State Institutional Research Complexities





Path of an International Research Project





Keys to Success

- Single POC for relationship building efforts
- Early interaction with Global Programs and OSP
- Clear communication between sponsor and awardee business contacts
- Specific university business representative handling all foreign sponsored work.
- Pre-Review of contractual terms at proposal stage
- Understanding of local customs and culture
 - Important for the on the ground personnel to be able to relay these things to business units in the US.

GOAL: University-wide International Research Navigator





Institutional Infrastructures for Facilitating International Research

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About UC Davis



About UC Davis



1st in the world for
veterinary medicine



1st in the U.S. in faculty
papers written in the field
of ecology and the
environment



Ranked 1st nationally
in agriculture

UC DAVIS
ranks
#1
in the world in
Plant and Animal
Sciences



UC Davis: Comprehensive Research University

- **36,411 Students**
 - 29,546 Undergraduates
 - 6,895 Graduate/Professional
- **4 Colleges**
 - Agricultural and Environmental Sciences
 - Biological Sciences
 - Engineering
 - Letters and Science
 - Humanities, Arts and Cultural Studies
 - Mathematical and Physical Sciences
 - Social Sciences
- **6 Professional Schools**
 - Education
 - Law
 - Management
 - Medicine
 - Nursing
 - Veterinary Medicine
- **Lifelong Education**
 - UC Davis Extension
 - UC Cooperative Extension



Infrastructure for International Research



Infrastructure for International Research

- Office of Research
- College of Agricultural and Environmental Sciences – International Programs Office
- School of Veterinary Medicine – Office for Global Programs
- School of Law – Associate Dean of International Programs
- Global Affairs



About Global Affairs



Mission

To inspire global curiosity,
understanding and engagement.

Vision

We envision a UC Davis community
prepared to engage, thrive, and lead
in an interconnected world.



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graph TD; VPAC((Vice Provost and Associate Chancellor)) --- AP((Academic Programs)); VPAC --- GES((Global Education and Services)); VPAC --- BO((Business Operations));
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Vice Provost and Associate Chancellor

- Global Centers
 - Big Ideas
- Strategic Plan

Global Education and Services

- Services for International Students and Scholars
 - Study Abroad (Domestic/International)
- Sponsored Programs and Special Projects
 - Blum Center for Developing Economies

Business Operations

- Business Unit
- Communications
- Human Resources
- Executive Support
- Development and Marketing Analysis
 - Event Planning
 - Travel Security

Academic Programs

- Faculty programs, support and funding
- International partnerships, agreements and visitors
- Asian international programs
- Confucius Institute at UC Davis
- UC Davis Chile - Life Sciences Innovation Center
 - BCBCB Middle East Universities Consortium

Global Affairs - Organizational Chart



Seed Grant Programs

- Seed Grants for International Activities
 - 187 projects funded since 2001
 - International research collaborations
 - Innovations in internationalizing the curriculum
 - New interdisciplinary, international partnerships
- Grants for Regional Faculty Groups
 - Interdisciplinary interactions among faculty working in the same region of the world
 - Regional groups include:
 - Sub-Saharan Africa, Asia and the Pacific, Europe, Latin America and the Caribbean, Middle East and North Africa





Funding Mechanisms for International Work

- Fulbright Scholar Program
- German Academic Exchange Service (DAAD)
- EURAXESS North America
- UC MEXUS
- Japan Society for the Promotion of Science
- China Scholarship Council
- FAPESP Week at UC Davis
- NSF Day





Collaborative Funding Programs

Chile

- Chile – UC Partnerships (BECAS Chile)

Brazil

- FAPESP – UC Davis Collaborative Research Program

Australia

- UC Davis – University of Sydney

China

- Confucius Institute at UC Davis
- China Scholarship Council
- 3+X Master's Degree Program

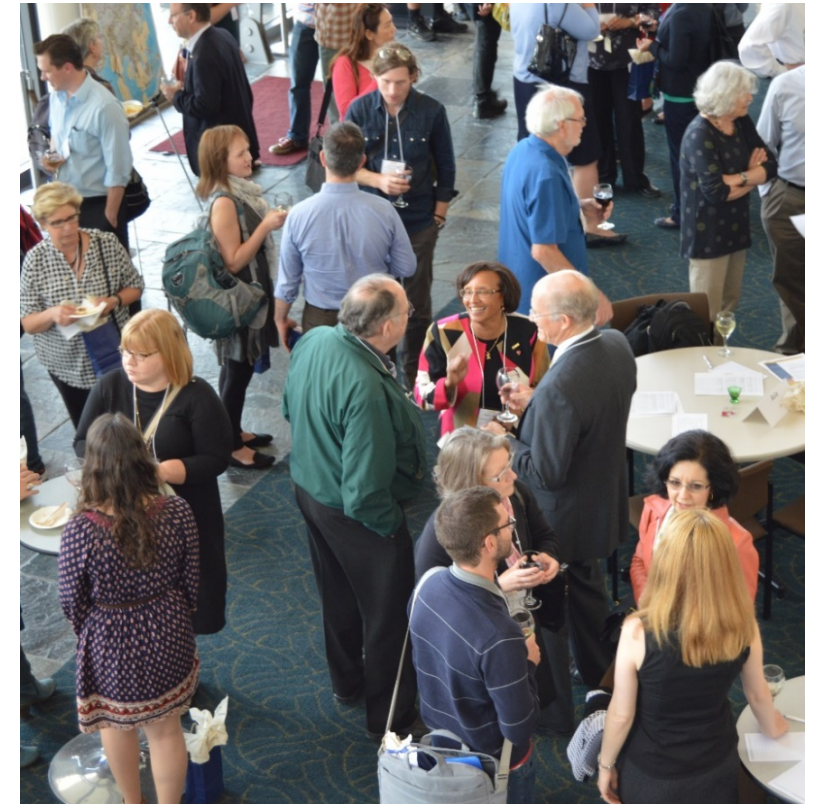


Opportunities and Challenges



Opportunities and Challenges

- Seed Grant Programs
- Collaborative Research Programs
- Global Centers
- International Connections Reception
- International Linkages Database
- Cyclical nature of international agreements





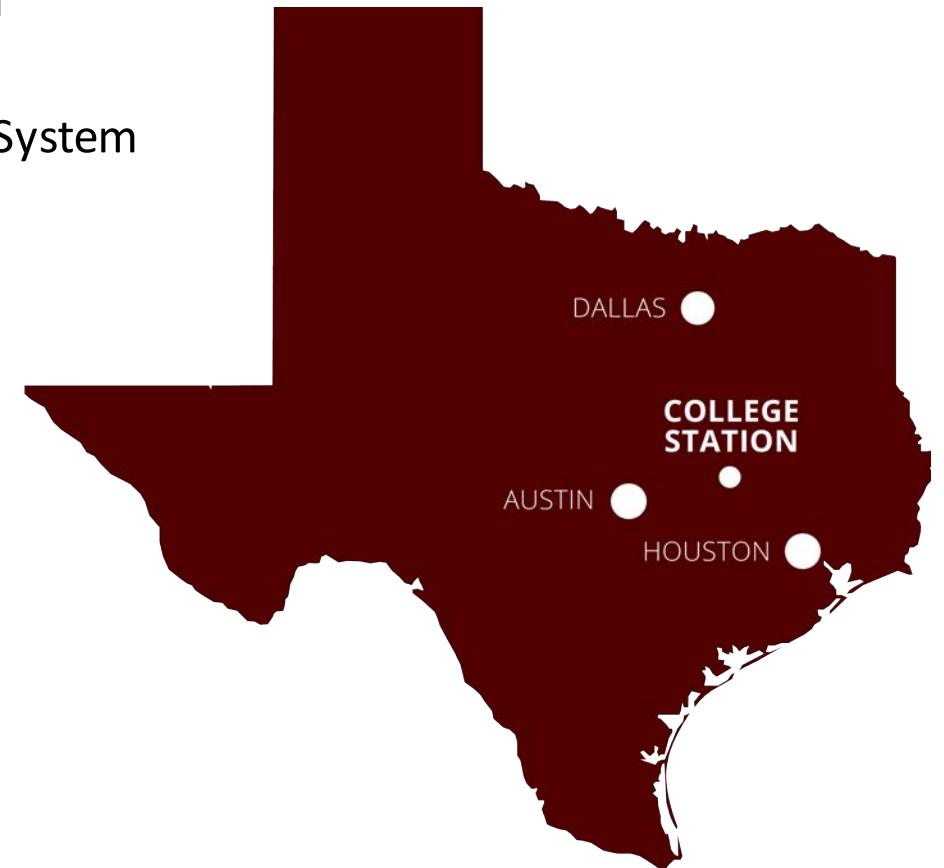
Institutional Infrastructures for Facilitating International Research

Monica Bruno Holder, International Programs Coordinator
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Texas A&M University

- Land-grant, sea-grant and space-grant university located in College Station, Texas
- Opened in 1876 – flagship university of The Texas A&M System
- 2016 enrollment – 67,000
 - 77% Undergraduate
 - 23% Graduate
- Faculty – 4,971
 - ~3,000 PI Eligible
- AAU member
- FY15 expenditures exceeded \$866M
- Ranks 9th among US public universities (HERD)





Research-Intensive Flagship University

18 Schools and Colleges

Sending Leaders into the World – Taking on the Challenges of Tomorrow

Agriculture and Life Science

Architecture

Business

Dentistry

Education and Human Development

Engineering

Geosciences

Bush School

Law School

Liberal Arts

Medicine

Nursing

Pharmacy

Public Health

Science

Veterinary Medicine & Biomedical Sciences

2 Branch Campuses

Texas A&M University at Galveston

Texas A&M at Qatar



Global Partnerships

Global partnerships exist at multiple levels, including at the department or research center level, the college level, or the university level.

Texas A&M University has 182 active Memoranda of Agreements with universities and agencies.

Argentina	Egypt	Jordan	Qatar
Armenia	El Salvador	Kazakhstan	Romania
Australia	Finland	Korea	Russian Federation
Austria	France	Mexico	Saudi Arabia
Bangladesh	Germany	Mongolia	Singapore
Belgium	Greece	Namibia	South Africa
Bolivia	Haiti	Netherlands	Spain
Brazil	Hong Kong	New Zealand	Sweden
Canada	India	Nigeria	Switzerland
Chile	Indonesia	Norway	Taiwan
China	Ireland	Pakistan	Thailand
Colombia	Israel	Panama	Turkey
Cyprus	Italy	Peru	United Arab Emirates
Denmark	Japan	Poland	United Kingdom
Ecuador			



International Institutes or Projects

- Borlaug Institute for International Agriculture
- Center for International Business Studies
- Confucius Institute
- Fulbright International Educational Exchange Program
- Giant Magellan Telescope
- International Ocean Discovery Program
- Large Hadron Collider
- Scowcroft Institute of International Affairs





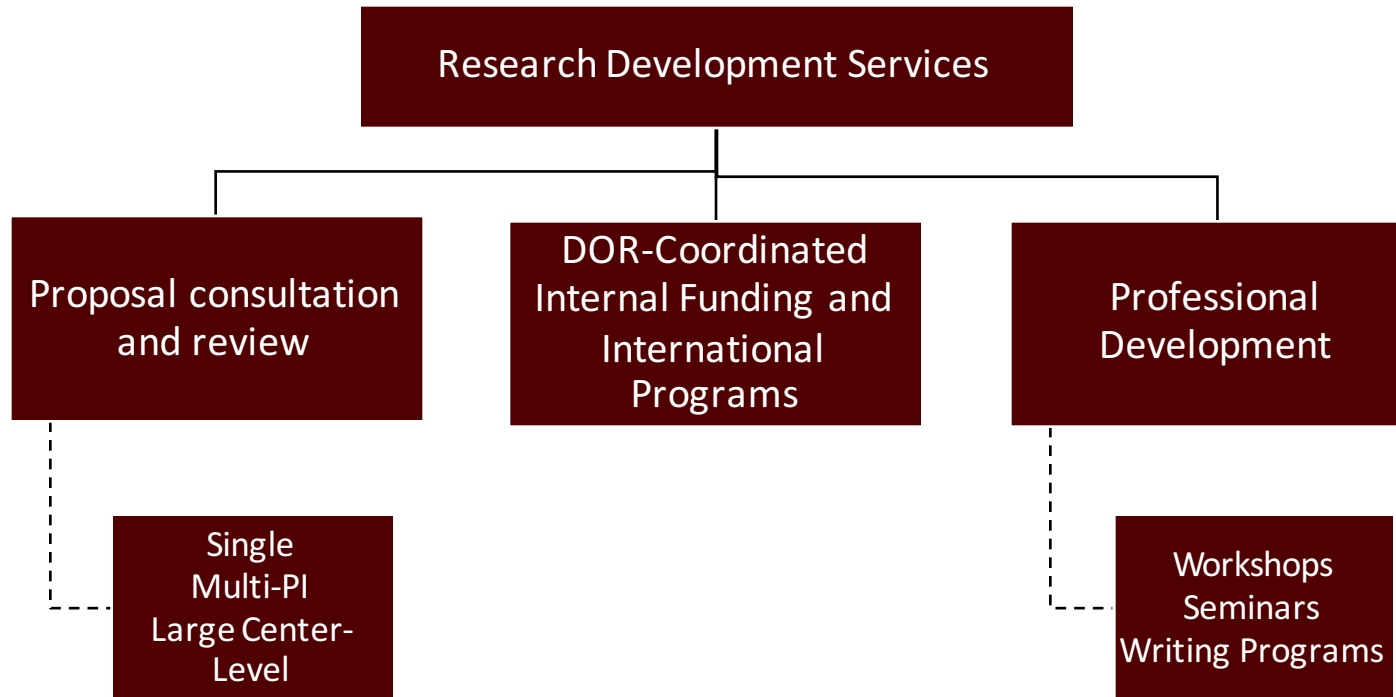
Division of Research

- Sponsored Research Services (Pre- & Post-Award Administration)
- Research Grants and Contract Administration
- Research Compliance and Biosafety
- Technology Commercialization
- Research Park
- **Research Development Services**
 - Created three years ago
 - Six full-time staff members, includes NIH and NSF specialists





Research Development Services (RDS)





DOR Funding for International Programs

The Division of Research facilitates specific agreements with international agencies to offer opportunities for international research partnerships.





DOR-Funded International Research Partnerships

Present

Mexico

CONACYT – Consejo Nacional de Ciencia y Tecnología (National Council for Science and Technology)

Brazil

CAPES – Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (Brazilian Federal Agency for Coordination and Enhancement of Higher Education)

Former

China

NSFC – National Natural Science Foundation of China

Israel

WIS – Weizmann Institute of Science



DOR International Partnership Management

Overview

- Awards range from \$24,000 - \$100,000 per proposal
- Competitive, peer-reviewed proposals
- One PI from Texas A&M and one PI from partnering country

Benefits and Outcomes

- Advances inter-institution cooperation
- Develop and sustain research collaborations
- Jointly author high-impact publications
- Submit joint proposals for external research funding



Texas A&M-CONACYT Collaborative Research Grant Program

- Began in 2001, longest running program
- Open to all disciplines
- Funded 219 joint proposals at more than \$5.7 million
- Annually funds 10 awards for \$24K and 2 awards for \$75K
- Research Symposiums every other year in alternating countries
- Texas A&M support office in Mexico City, Mexico Partnership Services, assists U.S. and Mexico based faculty with
 - finding appropriate contacts
 - applying as a Mexican corporation for funded projects
 - managing grant contracts
 - hiring employees in Mexico
 - making local arrangements
 - other similar services





Lessons Learned

- Start with a known relationship who can facilitate initial connection.
- Do your research to find the right person at the foreign agency.
- Connect with a letter or face-to-face meeting – not email.
- Know what you want, but be prepared for negotiation.
- Know the benefits to each institution/agency.
- Value the relationship by showing commitment and appreciation for their culture.
- Develop strong personal connections.
- Stay current with political and economic conditions of the partnering home country.



Lessons Learned

- MOAs
 - Optimally 3-5 years in length and based on agreed upon general principles
 - include flexibility in application
 - details in the annual request for proposal can vary each year depending on current situations and/or administrators
- Consistent staff and administrative support.
- Communicate and follow-up.



Thank you! Please contact me with questions.

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<http://vpr.tamu.edu/researchdevelopment>





Thank you!