ISP Structure

Office of the Dean

ISP Services

Education Offices

Area and Thematic Centers
Area & Thematic Centers
Education Offices

- Office of the Dean
- ISP Services
- Area and Thematic Centers
- Education Offices

Office of Study Abroad
- Office for International Students & Scholars
- Japan Center for Michigan Universities
- American Semester Program
- MasterCard Foundation Scholars Program
BUILDING BEYOND TOMORROW
BUILDING BEYOND TOMORROW: STRATEGY

THemes

REgions

RELATIONSHIPS AND SERVICE
Number of MSU International Projects by Region, FY 2006-2015
BUILDING BEYOND TOMORROW: MSU VALUES

- Research to Impact
- Interdisciplinary Team Approach
- Faculty Scholarship
- Cross-Cultural Collaboration
- Local Context Knowledge
- Field Engagement
BUILDING BEYOND TOMORROW STRATEGY
Drivers For International Engagement

- Research
- Education
- Capacity Building
RESEARCH
Drivers for International Research Collaboration

Resources

• **Access** to unique facilities and equipment
• **Leverage** costs and risks
• **Exchange** techniques and insights
• **Engage** subject-matter experts

Capacity

• **Strengthen / Expand** knowledge base
• **Attract** talent
• **Enhance** S&T-led economic performance

Objectives

• **Address** national, transnational or global problems
• **Foster** science diplomacy
• **Access** foreign markets
• **Pursue** personal / professional goals
Abstract

International collaboration is becoming increasingly important for the advancement of science. To gain a more precise understanding of how factors such as international collaboration influence publication success, we divide publication success into two categories: journal placement and citation performance. Analyzing all papers published between 1996 and 2012 in eight disciplines, we find that those with more countries in their affiliations performed better in both categories. Furthermore, specific countries vary in their effects both individually and in combination. Finally, we look at the relationship between national output (in papers published) and input (in citations received) over the 17 years, expanding upon prior depictions by also plotting an expected proportion of citations based on Journal Placement. Discrepancies between this expectation and the realized proportion of citations illuminate trends in performance, such as the decline of the Global North in response to rapidly developing countries, especially China. Yet, most countries show little to no discrepancy, meaning that, in most cases, citation proportion can be predicted by Journal Placement alone. This reveals an extreme asymmetry between the opinions of a few reviewers and the degree to which paper acceptance and citation rates influence career advancement.
International Awards as a Percentage of Total MSU Awards, FY 2006-2015
What Is the Global Funding Landscape for Research?
ANNUAL U.S. R&D SPENDING IS ~$465 BILLION

- Global R&D increase projected *(government, industry, academic)* to $1.6 trillion
- Asia is driving growth; China’s R&D spending could surpass U.S. by early 2020’s
- Internationalization of R&D will continue
Different Priorities Among Research Leaders

China places more emphasis on development, less on basic research.

Source: Battelle and R&D Magazine

Note: “Development” in the Battelle context means technology commercialization, not foreign assistance.
What Is the U.S. Federal Funding Landscape for International Research and Engagement?
Composition of the Proposed FY 2016 Budget
Total Outlays = $4.0 trillion

- Net Interest: $283 billion
- Defense Discretionary: $528 billion
- [Defense R&D]: $77 billion
- Nondefense Discretionary: $495 billion
- [Nondefense R&D]: $69 billion
- Other Mandatory: $670 billion
- Medicaid: $351 billion
- Medicare: $583 billion
- Social Security: $938 billion

R&D figures above are AAAS estimates of proposed budget authority. Source: Budget of the United States Government FY 2016. Projected deficit is $474 billion. © 2015 AAAS
Total R&D by Agency, FY 2015

Budget authority in billions of dollars

- USDA, $2.4
- NSF, $5.6
- NASA, $11.6
- DOE, $12.3
- HHS (NIH), $31.1
- Commerce, $1.6
- All Other, $6.2
- DOD, $65.7

Total R&D = $136.5 billion
(OSI Initiative is an extra $5.3 billion)

Source: OMB R&D data, agency budget justifications, and other agency documents and data. R&D includes conduct of R&D and R&D facilities. © 2014 AAAS
CAPACITY BUILDING
Federal Foreign Aid Funding Budget FY 2015

Federal Budget Request FY 2015 for Foreign Operations by Account
Total: $33.2 Billion

- FMF (Foreign Military Financing), $5,647,645, 17%
- GHP (Global Health Programs)
  - STATE, 5,370,000, 16%
  - USAID, 2,680,000, 8%
- ESF (Economic Support Fund), 5,071,094, 15%
- DA (Development Assistance), 2,619,984, 8%
- INCLE (International Narcotics Control and Law Enforcement), 1,117,311, 4%
- IDA (International Disaster Assistance), 1,300,000, 4%
- P.L. 480 (P.L. 480 Title II/Food for Peace), 1,400,000, 4%
- NADR (Nonproliferation, Anti-Terrorism, Demining and Related Programs), 605,400, 2%
- PKO (Peacekeeping Operations), 336,150, 1%
- IO&P (International Organizations and Programs), 303,439, 1%
- IMET (International Military Education and Training), 107,474, 0%
- Other**, 6,647,594, 20%
Federal Foreign Aid Funding Budget FY 2015

Source: http://www.foreignassistance.gov/
About the U.S. Global Development Lab

Feed the Future Innovation Labs

Research & Universities | Oct 30, 2013

Feed the Future Innovation Labs draw on the expertise of top U.S. universities and developing country research institutions to tackle some of the world’s greatest challenges in agriculture and food security.
The United States Agency for International Development (USAID) has joined with several U.S. Government (USG) supported agencies to support Partnerships for Enhanced Engagement in Research (PEER). Administered by the U.S. National Academy of Sciences (NAS), PEER is a competitive grants program that invites scientists in developing countries, partnered with USG-supported collaborators, to apply for funds to support research and capacity-building activities on topics with strong potential development impacts. This innovative program is designed to leverage the investments other USG-supported agencies have made in scientific research and training while supporting the initiatives of developing country scientists. Learn more...
What Is the Foundation Landscape for International Research and Engagement?
2014 U.S. Contributions: $358.38 billion by type of recipient organization (billions of dollars –figures rounded)

- Religion: $114.90 (32%)
- Education: $54.62 (15%)
- Gifts to foundations: $41.62 (12%)
- Human services: $42.10 (12%)
- Health: $30.37 (8%)
- Public-society benefit: $26.29 (7%)
- Arts, culture, and humanities: $17.23 (5%)
- Environment/animals: $10.50 (4%)
- Gifts to individuals: $6.42 (2%)
- International affairs: $15.10

Source: Giving USA Foundation | Giving USA 2015
U.S. Private Philanthropy in Developing Countries, 2010
Total — $39.0 Billion

- Private and Voluntary Organizations: 36%
- Corporations: 19%
- Foundations: 12%
- Religious Organizations: 18%
- Universities and Colleges: 5%
- Volunteerism: 10%

Source: The Index of Global Philanthropy and Remittances 2012, Hudson Institute, Center for Global Prosperity.
### Top 50 FC 1000 Foundations Awarding Grants for International Affairs, Development, Peace, and Human Rights, 2012

<table>
<thead>
<tr>
<th>Foundation Name</th>
<th>Grants Awarded (in USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GATES FOUNDATION, BILL &amp; MELINDA</td>
<td>248,222,870</td>
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<tr>
<td>WALTON FAMILY FOUNDATION, INC.</td>
<td>110,314,500</td>
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<tr>
<td>TURNER GLOBAL FOUNDATION</td>
<td>50,000,000</td>
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<tr>
<td>FORD FOUNDATION</td>
<td>47,634,880</td>
</tr>
<tr>
<td>FOUNDATION TO PROMOTE OPEN SOCIETY</td>
<td>41,555,679</td>
</tr>
<tr>
<td>ADELSON FAMILY FOUNDATION</td>
<td>33,550,000</td>
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<tr>
<td>MACARTHUR FOUNDATION, JOHN D. AND CATHERINE T., THE</td>
<td>29,278,000</td>
</tr>
<tr>
<td>HEWLETT FOUNDATION, WILLIAM AND FLORA, THE</td>
<td>26,718,499</td>
</tr>
<tr>
<td>BUFFETT FOUNDATION, HOWARD G.</td>
<td>23,336,114</td>
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<tr>
<td>CARNEGIE CORPORATION OF NEW YORK</td>
<td>19,974,600</td>
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<tr>
<td>BUFFETT FOUNDATION, SUSAN THOMPSON, THE</td>
<td>19,958,945</td>
</tr>
<tr>
<td>SILICON VALLEY COMMUNITY FOUNDATION</td>
<td>16,655,155</td>
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<tr>
<td>OPEN SOCIETY INSTITUTE</td>
<td>16,519,486</td>
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<tr>
<td>SKOLL FOUNDATION, THE</td>
<td>14,499,000</td>
</tr>
<tr>
<td>CATERPILLAR FOUNDATION</td>
<td>12,408,861</td>
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<tr>
<td>OMIDYAR NETWORK FUND, INC.</td>
<td>12,392,871</td>
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<tr>
<td>JOHNSON &amp; JOHNSON FAMILY OF COMPANIES FOUNDATION</td>
<td>12,181,418</td>
</tr>
<tr>
<td>GE FOUNDATION</td>
<td>12,154,520</td>
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<tr>
<td>SCHUSTERMAN FAMILY FOUNDATION, CHARLES AND LYNN</td>
<td>10,958,819</td>
</tr>
<tr>
<td>ROCKEFELLER FOUNDATION, THE</td>
<td>10,321,903</td>
</tr>
<tr>
<td>WEINBERG FOUNDATION, HARRY AND JEANETTE, INC., THE</td>
<td>7,356,000</td>
</tr>
</tbody>
</table>

[http://data.foundationcenter.org/#/fc1000/subject:all/all/top:foundations/list/2012](http://data.foundationcenter.org/#/fc1000/subject:all/all/top:foundations/list/2012)
Here is an example of how MSU engagement in Africa is funded…
Top 10 Countries 2008-2015
Size of Awards

* Includes projects with 5 or less countries named; excludes regional projects
Primary Sources of External Funding 2006-2015
MSU Projects in Sub Saharan Africa

- USAID, $76,437,311, 32%
- MasterCard Fdn, $45,207,784, 19%
- Gates Fdn, $41,196,320, 18%
- NIH, $28,819,517, 12%
- US Dept of Ed, $6,368,288, 3%
- USDA, $6,001,608, 3%
- NSF, $5,581,678, 2%
- SIDA, $3,666,305, 2%
- MidAmerican Energy, $3,124,258, 1%
- Hewlett Fdn, $2,500,000, 1%
- All Others, $17,117,940, 7%
Okay, I’m convinced. Where do I start?
Ask yourself these questions…

• What are my international interests, and are they - basic, applied and/or capacity building?
• What are the drivers of my international interests?
• Who will fund my interests?
• How can I begin a collaboration?
Example: My international interests are discovery-based research or education.

Let’s explore international at NSF.
• NSF is a **domestic** science funding agency that funds **extramural, fundamental** research (no intramural research or applied/derivative research)

• Based on merit review, NSF funds researchers, predominantly through their **U.S. institutions** (80% of funding to universities)

• NSF funds U.S.-based researchers to work internationally, but **does not fund** capacity building or international researchers
• Intellectual partnerships and mutual benefit are clear

• U.S. students and junior researchers are engaged internationally

• Global networks linking expertise and resources are common

Make a case in your proposal!
NSF Programmatic Organization

NSF Office of the Director

- Office Integrative Activities (OIA)
- Office of International Science and Engineering (OISE)

NSF Directorates

- Biological Sciences (BIO)
- Computer and Information Science and Engineering (CISE)
- Education and Human Resources (EHR)
- Engineering (ENG)
- Mathematical and Physical Sciences (MPS)
- Geosciences (GEO)
- Social, Behavioral and Economic Sciences (SBE)
NSF Funding for International Activities

Most international research and education activities are **funded by NSF disciplinary programs**: 

- As part of regular awards
- As supplements to regular awards
Opportunities for MSU Faculty to Get NSF Support for International Student Research

• (International) Research Experiences for Undergraduates (iREU) and REU Supplements to existing NSF awards

• International Research Experiences for Students (IRES) managed by NSF’s Office of International Science and Engineering
Opportunities for MSU Students to Get NSF Support for International Student Research

• Graduate Research Fellowship Program (GRFP/GROW)
• East Asia Pacific Summer Institutes (EAPSI)
• (International) Postdoctoral Research
Graduate Research Opportunities Worldwide: An International Opportunity for NSF-funded Graduate Research Fellows

- Offers opportunities to NSF Graduate Research Fellows for 2-12 month international research collaborations
- 2015 Partners: Australia, Austria, Brazil, Chile, Denmark, Finland, France, India, Ireland, Japan, Korea, Netherlands, Norway, Singapore, Sweden, and Switzerland
- U.S. Agency for International Development is providing “GROW with USAID” opportunities for development research in: Brazil, Colombia, India, Indonesia, Philippines, Senegal, and South Africa
- Contact: grow@nsf.gov

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504876
East Asia and Pacific Summer Institutes (EAPSI)

Graduate student research experiences at host institutions in Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan; **November 12, 2015 deadline**

- $5,000 stipend for 8-10 weeks from June to August
- Pre-departure orientation in Washington, D.C.
- International round-trip airfare to the host location
- Orientation to science and culture at each location
- Abroad living expenses by host country

**NSF 13-593**
How can I find resources?
Federal Funding Resources
Welcome to Newton’s List, a tool for funders and grantseekers interested in collaborative international research and education.

Post a Funding Opportunity
For individuals looking to share information on a current funding opportunity, click here

Search for Opportunities
For scientists and researchers seeking support, click here

Share Your Thoughts
Tell us about your experience with Newton's List
Take our survey for grantseekers and funding agency representatives
Have a story about how Newton's List helped you? Email us at newtonlist@crdfglobal.org
Interactive Map of Direct Grants by U.S. Grantmakers to Non U.S. Recipients

About the maps


International Giving, $18,915,032,939 to 23,805 Recipients for 75,378 Grants
Vice President for Research and Graduate Studies

OVPRGFS Funding Opportunities Database - All

This funding opportunities database maintained by the Office of the Vice President for Research and Graduate Studies contains selected grant opportunities that may be of interest to the MSU community. Follow the procedures and guidelines when submitting Institutionally Limited pre-proposals.

Institutionally limited funding programs and fellowships are available for graduate students and are managed by the Graduate School. Please contact the office for more information or to receive approval to move forward with an application.

The Graduate School
Chittenden Hall
466 W Circle Dr., Room 230
East Lansing, MI 48824 US
517-353-3220

http://grad.msu.edu/funding/

Back to Find Funding

Title Search Tag Search

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<tr>
<th>Title</th>
<th>Letter of Intent/Pre-Proposal Deadline</th>
<th>Internal Deadline</th>
<th>External Deadline</th>
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<tr>
<td>NIH PA-12-274 Examination of Survivorship Care Planning Efficacy and impact [R21]</td>
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<tr>
<td>NIH PA-12-275 Examination of Survivorship Care Planning Efficacy and Impact [RO1]</td>
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<tr>
<td>The Michelson Prize &amp; Grants</td>
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<tr>
<td>NIH PA-12-280 HIV/AIDS, Drug Use, and Vulnerable Populations in the US (ROI)</td>
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</table>
GRANTS AND RELATED RESOURCES

1. The Funding Center: A Foundation Center Affiliate
   Who Can Use It? | Where Is It? | When Is It Available for Use?
   Special Services | Are There Other Funding Information Network Partner Collections?

2. Grants and Related Resources Blog

3. Grants for Nonprofits (By Subject Categories)

4. Grants for Individuals (By Academic Level, Population Group, and Subject)

5. Funding for Business or Economic Development

6. Federal Funding Tools and Links

7. State of Michigan Funding Links

8. National Grant Makers

9. Michigan Grant Makers

10. Michigan Community Foundations

11. Lansing Area Grant Makers

12. Local Service Clubs

13. 990-PF Finding Tools

14. International and Foreign Grant Makers

15. Key MSU Web Pages Related To Funding Opportunities

16. Grantsmanship Techniques (Books)

17. Academic Fundraising

18. Fundraising for Educators

19. Religious Fundraising

20. Nonprofit Fundraising
MISSION
The Office of International Research Collaboration (OIRC) works collaboratively with Michigan State University’s world area studies centers to assist faculty in developing transdisciplinary research proposals for external funding that focus on college and university international/global research priorities.

As part of International Studies and Programs (ISP), OIRC places priority on projects that:

- build on MSU’s existing strengths;
- are focused around university and college strategic research priorities;
- are forward-looking and high impact;
- integrate with scholarship; and
- have a high return on investment.

The Office’s primary support will be given to projects:

- that focus on MSU’s international/global research priorities in food, sustainable environment and development, health and nutrition, and education;
- that have the potential to generate significant external funding.

LEARN MORE ABOUT OIRC
OIRC Services
ISP/OIRC Services for International/Global Research and Technical Support

- Market Demand Assessment
- Internal/External Networking
- Research Project Conceptualization
- Research Collaborator Coordination
- Research Proposal Initiation
- Proposal Writing Coordination
How do I approach a prospective funder?
Be prepared…

• One page summary of international interests emailed in advance
• Schedule 30 minutes, and watch the time
• Meet at professional meetings and on DC visits
• Volunteer to be a reviewer (mail or panel), and submit substantive reviews on time
• Ask your program director for suggestions of other relevant programs or agencies or donors
DeAndra Beck
Associate Dean for Research

MSU International Studies and Programs
beckdean@msu.edu