



Hot Topics

General Session: 8:30-9:20 (Stew 214)

Breakout Sessions: 9:30-10:40 and 10:50 -12:00

A) When a Small Sign is the Beginning of a Big Fix (Stew 214) Ianthe "Cookie" Bryant-Gawthrop

B) Impact of Transformation on Research Administration (STEW 218) Susan Corwin, Amanda Hamaker Erin Fetter, Kim Hoebel



General Session

- A Look at the Numbers
- Increased Scrutiny (Audits & Lessons Learned)
- Strengths, Risks and Opportunities (EVPRP Transition)
 - Foreign Influence
- GM Transformation
- What's Next with HRPP

Ken Sandel

Senior Director, Sponsored Program Services Senior Intellectual Property Officer

Date: April 2019



A Look at the Numbers





Purdue System-Wide Year-To-Date Awards By Sponsor Compare Fiscal Years - FY18 vs FY17 (thru Period 12)

	FY2018 (Jul2017-Jun2018)		FY2017 (Ju	l2016-Jun2017)	% CI	hange	
SPONSOR	NO.	\$AMOUNT	NO.	\$AMOUNT	NO.	AMOUNT	\$DIFF
National Science Foundation	284	68,025,456	303	83,289,208	-6%	-18%	-15,263,751
Dept. of Health and Human Services	309	63,976,121	273	53,950,445	13%	19%	10,025,677
Dept. of Defense	325	46,961,288	265	38,863,578	23%	21%	8,097,710
Dept. of Energy	146	20,800,358	133	27,147,984	10%	-23%	-6,347,626
Dept. of Agriculture	132	16,329,860	137	19,720,448	-4%	-17%	-3,390,588
National Aeronautics and Space Admin	111	9,426,197	99	6,892,031	12%	37%	2,534,165
Other Federal	89	9,714,473	70	10,307,151	27%	-6%	-592,678
Dept. of Education	24	9,149,611	23	10,294,258	4%	-11%	-1,144,647
Dept. of Interior	23	737,898	18	908,629	28%	-19%	-170,731
Environmental Protection Agency	13	1,334,794	10	3,169,559	30%	-58%	-1,834,765
Dept. of Transportation	15	6,343,328	22	1,922,776	-32%	230%	4,420,552
Agency for International Development	21	3,441,253	19	4,445,595	11%	-23%	-1,004,343
Total Federal	1,492	\$256,240,637	1,372	\$260,911,662	9%	-2%	-\$4,671,026
Industrials and Foundations	1,562	138,163,581	1,594	102,249,146	-2%	35%	35.914.434
Profit	914	65,612,854	983	63,942,875	-7%	3%	1,669,979
Non-Profit	648	72,550,726	611	38,306,272	6%	89%	34,244,455
State/Local Governments	129	28,955,757	136	27,944,545	-5%	4%	1,011,213
Purdue University/Purdue Research Edn	598	21,877,950	691	22,764,860	-13%	-4%	-886.910
Purdue University	212	7,579,501	231	9,796,574	-8%	-23%	-2,217,073
Purdue Research Foundation	386	14,298,448	460	12,968,285	-16%	10%	1,330,163
Foreign Governments	79	9,257,062	73	4,406,863	8%	110%	4,850,199
Total Non-Federal	2,368	198,254,350	2,494	157,365,414	-5%	26%	\$40,888,936
Total Purdue System-Wide	3,860	\$454,494,987	3,866	\$418,277,076	0%	9%	\$36,217,911

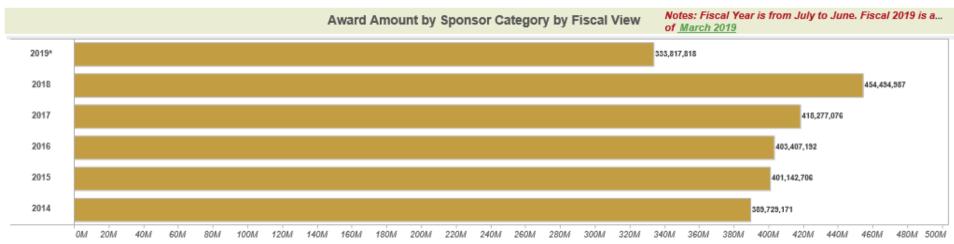


Awards FY 2018 – By Agency

3.6 %	USDA, \$16 M				
4.6 %	DOE, \$21 M				
4.8 %	PRF/PU, \$22 M				
6.4 %	State/Local Govts, \$29 M				
10.3 %	DoD, \$47 M				
10.9 %	Other Fed, \$40 M & Foreign Govts, \$9 M				
14.1 %	DHHS (NIH), \$64 M				
15.0 %	NSF, \$68 M				
30.4 %	Industrials & Foundations, \$138 M				
\$454.5M in Sponsored Awards					



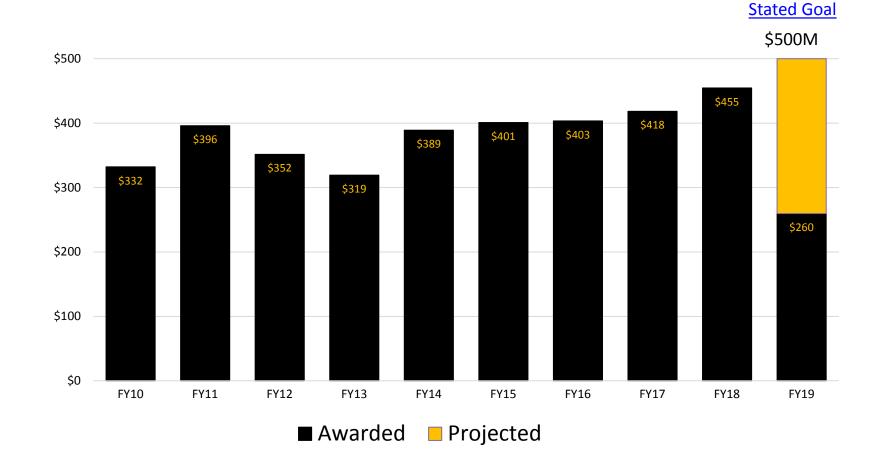
Awards FY 2019 YTD



Award Amount by Sponsor All by Sponsor Category								
	2019*	2018	2017	2016	2015	2014		
Federal	212,014,538	256,240,637	260,911,662	250,217,779	228,680,192	228,357,645		
Foreign Govts	9,496,413	9,257,062	4,406,863	2,786,898	3,706,484	16,341,478		
Industrial/Foundations	74,459,483	138,163,581	102,249,146	82,232,076	133,635,225	98,004,984		
PRF/Purdue	9,000,439	21,877,950	22,764,860	28,904,378	13,681,132	23,874,558		
State/Local Govts	28,846,945	28,955,757	27,944,545	39,266,060	21,439,672	23,350,508		
Grand Total	333,817,818	454,494,987	418,277,076	403,407,192	401,142,706	389,729,171		
		Industria	al and Foundations					
Profit/NonProft in Industrials and Foundations	2019*	2018	2017	2016	2015	2014		
Non-Profit	21,801,556	72,550,726	38,306,272	33,544,122	77,874,575	50,771,937		
Profit	52,657,927	65,612,854	63,942,875	48,687,954	55,760,650	47,233,047		
Grand Total	74,459,483	138,163,581	102,249,146	82,232,076	133,635,225	98,004,984		



Purdue Sponsored Research Awards System-wide, excluding ARRA

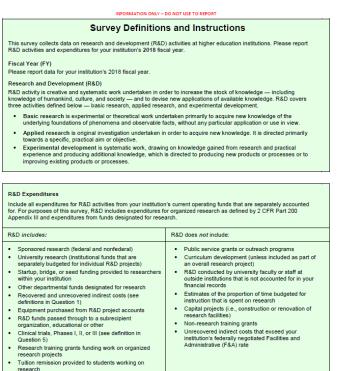


Millions

Survey Instructions

HIGHER EDUCATION RESEARCH AND DEVELOPMENT SURVEY

- Sponsored research
- University research
- Startup, bridge, or seed funding provided to researchers within your institution
- Other departmental funds designated for research
- Recovered and unrecovered indirect costs
- Equipment purchased from R&D project accounts
- R&D funds passed through to a subrecipient organization, educational or other
- Clinical trials, Phases I, II, or III
- Research training grants funding work on organized research projects
- Tuition remission provided to students working on research



https://www.nsf.gov/statistics/srvyherd/surveys/srvyherd_2018.pdf

HERD should be generated for FY 2019 based on Functional Area

HERD Survey Results 2013-2017

HIGHER EDUCATION RESEARCH AND DEVELOPMENT SURVEY

							Total R	&D ex pen	ditures (\$000)						
Institution		2017	,		2016	3		2015	5		201	4		201	3
			R&D			R&D			R&D			R&D			R&D
	Rank Pe	ercentile e	ex penditures	Rank P	ercentile	ex penditures	Rank P	Percentile	ex penditures	Rank F	Percentile	ex penditures	Rank	Percentile	ex penditures
Total R&D expenditures			75,315,121			71,935,291			68,692,335			67,348,593			67,144,666
Johns Hopkins University ^[1]	1	1.0	2,562,307	1	1.0	2,431,180	1	1.0	2,305,679	1	1.0	2,242,478	1	1.0	2,168,568
University of Michigan, Ann Arbor	2	1.1	1,530,139	2	1.1	1,436,448	2	1.1	1,369,278	2	1.1	1,349,262	2	1.1	1,375,117
University of California, San Francisco	3	1.2	1,409,398	4	1.3	1,294,261	4	1.3	1,126,620	5	1.5	1,084,031	6	1.6	1,042,841
University of Pennsylvania	4	1.3	1,374,293	3	1.2	1,296,429	17	2.8	864,068	18	2.9	828,350	18	2.9	828,422
University of Washington, Seattle	5	1.4	1,348,220	5	1.4	1,277,679	3	1.2	1,180,563	3	1.2	1,176,340	3	1.2	1,192,513
University of Wisconsin-Madison	6	1.6	1,193,413	6	1.6	1,157,680	6	1.6	1,069,077	4	1.3	1,108,564	4	1.3	1,123,501
University of California, San Diego	7	1.7	1,133,454	7	1.7	1,087,117	5	1.4	1,101,466	6	1.6	1,067,388	5	1.5	1,075,554
Duke University	8	1.8	1,126,924	10	2.0	1,055,778	7	1.7	1,036,698	7	1.7	1,036,813	8	1.8	992,821
Harv ard University	9	1.9	1,123,160	8	1.8	1,077,253	10	2.0	1,013,753	11	2.1	933,975	7	1.7	1,012,766
Stanford University	10	2.0	1,109,708	9	1.9	1,066,269	8	1.8	1,022,551	9	1.9	959,247	11	2.1	945,450
University of Texas at Austin, The	35	4.7	652,187	34	4.7	621,692	34	4.6	604,376	34	4.7	585,251	31	4.4	634,132
University of Illinois at Urbana-Champaign	36	4.9	642,084	33	4.5	625,180	31	4.3	639,817	32	4.5	621,733	22	3.4	743,487
Purdue University, West Lafayette	37	5.0	622,814	37	5.0	606,302	37	5.0	558,611	35	4.8	564,923	33	4.6	595,739
University of Arizona, The	38	5.1	622,200	38	5.1	604,464	33	4.5	606,219	33	4.6	588,088	32	4.5	629,466
Baylor College of Medicine	39	5.2	604,952	39	5.2	572,527	39	5.2	520,220	40	5.4	496,314	37	5.0	508,799
Mount Sinai School of Medicine	40	5.3	575,448	40	5.3	540,296	42	5.5	508,353	44	5.8	463,429	49	6.4	428,654
Purdue U., Northwest	336	37.8	8,924	350	39.6	7,812	323	36.5	9,669	341	39.0	8,166	342	39.2	8,259
Indiana University-Purdue University , Fort Way ne	393	44.1	5,254	378	42.7	5,952	360	40.6	7,052	347	39.6	7,882	344	39.4	8,128
Gordon-Conwell Theological Seminary	901	99.9	150 i	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
Purdue University, System			636,992			620,066			575,332			580,971			612,126

https://ncsesdata.nsf.gov/profiles/site?method=rankingBySource&ds=herd



Increased Audit Scrutiny

Audits

Completed Audits

- 1. UG Federal Single Audit
- 2. Japanese Aerospace Exploration Audit
- 3. USAID/Afghanistan Closeout Audit
- 4. United Soybean Board Audit
- 5. Family Health International/USAID Audit

Audits in process

- 1. Family Health International/USAID Audit
- 2. NSF/NEES Audit
- 3. NSF Audit

Agency Desk Reviews

- 1. OSHA
- 2. USDA-SNAP ED
- 3. National Institute of Justice
- 4. SBA/State of Indiana

12 in total

NSF Analytics Audit – Final Results

Audit Scope:

- For the period April 1, 2012 through March 31, 2015
 - \$238,897,545 of expenditures
 - 493,646 transactions
 - 895 awards

Disallowances:

- \$39,728 disallowed (.000166)
- 13 transactions (.000026)
- 4 awards (.00447)

Results speak for themselves as to the control environment in place at Purdue University related to Contract/Grant administration and the overall ecosystem of internal controls and our processes and procedures already in place.

The audit highlighted a number of things Purdue faculty, staff and research administrators need to remain focused on and diligent in award administration.

Lessons Learned...

Lessons Learned

- Expenditures in the last ninety days of project highly scrutinized.
 - Capital equipment purchases
 - Computer purchases
 - Travel other than presenting results of project at meetings
- Transactions posted after project expiration date are red flags
 - o Critical to document benefit to project in detail
 - Why transactions posting after project expiration date
 - Clear supporting documentation
- Record retention of supporting backup documentation
 - Pcard receipts
 - Allocability support of charges
- Presentations at conferences, workshops, symposiums
 - Document sponsor and project in power points, handouts, posters
 - Document purpose for project being presented
- Document project activities in quarterly, annual, and final technical reports
 - Travel both domestic and international
 - Purpose of trip
 - Who met with
 - Meetings, workshops, conferences attended
 - o Equipment and computer purchases
 - Why needed
 - Benefits to the Project

RQA Reviews

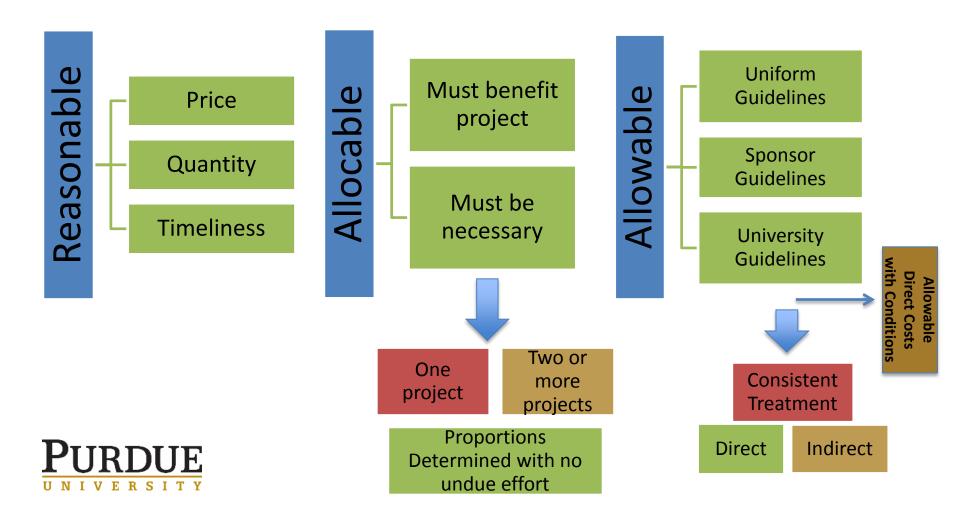
Reviews

- Key Internal Controls (Federal Appropriations, Student Aid, Sponsored Programs)
 - Inventory of Guidelines,
 Policies, Procedures, QRCs, Etc.
- Post approval monitoring review of approved IRB protocols
- Memo Match Cost Share
- Signature delegation for non-SPS staff
- Review of JV's processed to move payroll prior to 7/1/18 (initial once completed & in process)
- PIs with protocols that go on leave or permanently leave the University



GRANTS MANAGEMENT

Determining Chargeability of Costs to a Sponsored Program:





Foreign Influence



PREPARING PUTURE HEALTHCARE LEADERS

Does Harver's Benearch Fundance Poss a Threat?

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China - Foreign Threats to Our Universities

- In 2008 China began a program called "Thousand Talents" which leverages its citizens that were educated or employed in the U.S. as conduits for the transfer of U.S. technology, intellectual property, and know-how back to China.
- The current pool of recruits in the program is thought to be 2,629 (44 percent of whom specialize in medicine, life or health sciences...
- The undersecretary for research and engineering (DoD) stated "We have seen the Chinese target top talent in American universities and research labs of the private sector, including defense contractors and the U.S. government,"

Bloomberg article U.S. Faces "Unprecedented Threat" From China on Tech Takeover, 6/22/2018 by Anthony Capaccio



Foreign Influence / Entanglements

- 1. <u>Diversion of intellectual property (IP)</u> ... to other entities, including other countries;
- 2. <u>Sharing of confidential information on grant</u> <u>applications by NIH peer reviewers with</u> <u>others</u>, including foreign entities, or otherwise attempting to influence funding decisions; and
- 3. Failure by some researchers working at NIHfunded institutions in the U.S. to disclose substantial resources from other organizations, including foreign governments, which threatens to distort decisions about the appropriate use of NIH funds.





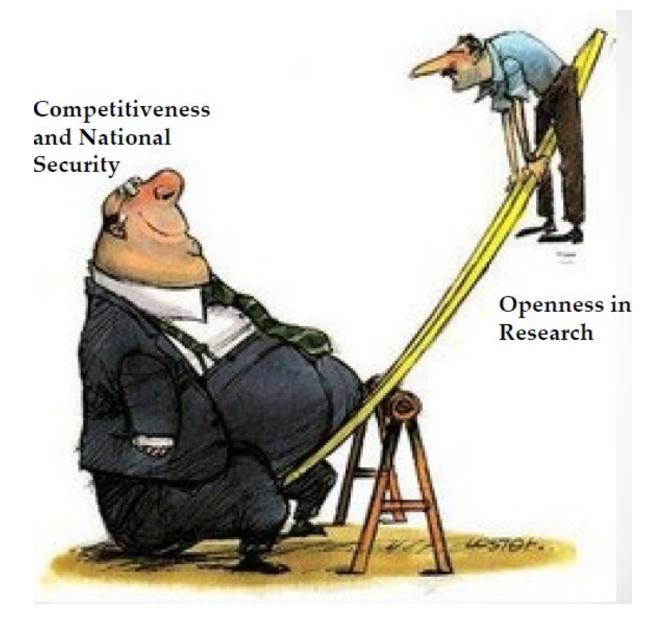
ERHLIN KRY/SETTY IMAGES; ADAPTED BY C. ANODEX/SCIENCE

NIH investigating whether U.S. scientists are sharing ideas with foreign governments

By Jocelyn Kaiser, David Malakoff | Aug. 27, 2018 , 5:15 PM

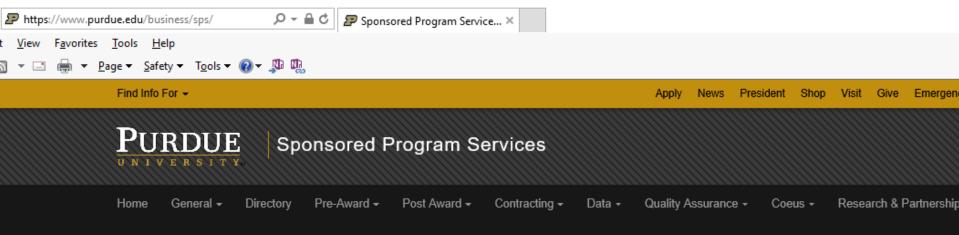
August 23, 2018 – NIH Statement on Protecting the Integrity of U.S. Biomedical Research

Foreign Influence



Purdue's Response

- 1. Leadership participating actively in the conversation in Washington DC
- 2. Provost and EVPRP Clarifying Expectations on Campus/Talking with Faculty
- 3. VPEC, COI, OGC, SPS, EVPRP Drafting FAQ and Coordinating Efforts
- 4. GRC/GAC Looking into their intake process/Updating Processes & Procedures
- 5. SPS Current & Pending/Disclosure of FCOI/Updating Processes & Procedures
- Export Control Enhance utilization of Visual Compliance/Updating Processes
 & Procedures
- 7. Policy Committee Reviewing FCOI and ROA
- 8. Business Offices Identifying issues, asking questions assisting with compliance
- 9. All Increase Awareness be Alert for the Small Signs



PRF

0 99 8	Resources Fe	edback
	Pre-Award	Post Award
	Proposal Worksheet	SPS Handbook/Guidelii
	 Proposal Preparation 	 Faculty Resources
	Pre-Award FAQ's	Business & Regional O
	Institutional Information	SAP Budget Templates
	Contracting	Data
	What Contracting	Awards/Expenditures/T
	Handles	 Data Requests
	 Request Contracting 	 Data Digest
	Service	College/Dept Inquiry
	 Contracting 101 	
	Industry Contracting	
	Models	
	Research Quality As	surance

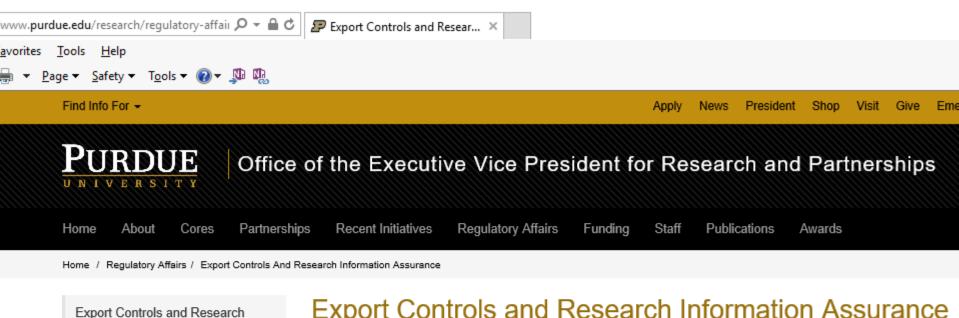
Disclosure and Reporting Requirements

Flexible IP Contracting Models

Sponsored Program Services

SPS is a collaboration between the Treasurer/Chief Financial Officer and Executive Vice President for Research and Partnerships. Responsibilities include: Proposals, Award Management, Contract Negotiation, Research Administration, Q Assurance, Regulatory Compliance, Agricultural and International Programs, Data and Support Services.

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Home General - Directory F	Pre-Award - Post Award - Contracting - Data - Quality Assurance - Coeus - Research & Partnerships						
PRF							
Data							
Data Home	Disclosure and Reporting Requirements						
Awards	Letter from the Provost and EVPRP related to foreign influence on research and scholarship						
Proposals	Both Domestic and International						
Expenditures	 Disclose to the Sponsored Program Services Office all research projects you devote effort to – ongoing or proposed – both domestic and international - in the Current and Pending Support/Other Support of your proposal application or at Just-in- Time. This includes any direct support provided to you, even if not officially through Purdue. 						
Negotiations	 Time. This includes any direct support provided to you, even if not officially through Purdue. <u>https://www.purdue.edu/business/sps/preaward/support_service.html</u> Disclose to the University Development Office any gift solicitation with all individuals and organizations in compliance with 						
Trends	University requirements.						
GM AIMS	 https://www.purdue.edu/policies/ethics/iiib5.html Disclose your outside professional activities and financial relationships, whether compensated or uncompensated, through the Reportable Outside Activity Form. Such disclosures must include all work for, or financial interests received from, 						
Reporting Tools	domestic and international institutions of higher education or the government or quasi-governmental organizations.						
Requests	 https://www.purdue.edu/ethics/resources/ROAformguidelines.html Disclose financial interests related to your research in all public sharing of research results including journal articles, presentations, and other publications. Journals and professional organizations have various, often broader standards for 						
Contact Us	financial interest disclosure than the University. Review those standards for each relevant journal or organization and disclose appropriately. Disclose to Purdue research related Significant Einancial Interests, including stipends, living						



Information Assurance

Policy

FAQs

Definitions

Training

Publication and/or Dissemination Restrictions

International Travel

International Research Collaborations

Working with Controlled Software

Using Proprietary and/or

Export Controls and Research Information Assurance

Email Address Sign up for alerts

O EXRC access

For Purdue personnel who require access to the Export Controlled Research Cluster (EXRC), please see the guida document for the access request process.

Last updated: January 30, 2019

O AMRDEC SAFE Outage

For Purdue personnel who use AMRDEC SAFE for secure file transfers, please see the guidance document for alt methods of sharing files during the Outage.

Last updated: December 19, 2018

The Export Control and Information Assurance team within the Office of Research and Partnerships is here to assist faculty, staff and students in complying with federal export regulations and protecting our sponsors and partners' pro Information.







Contact Info

Crystal Seibert

Global Support Manager Phone: (765) 494-7921

Mailing Address: Purdue University Managerial Accounting Services Kurz Purdue Technology Center (KPTC) 1281 Win Hentschel Blvd. Ste. 1100 West Lafayette, IN 47906-4182

Global Support

Global Initiatives Support Team: Description and Purpose

Multifunctional central office support team incorporating resources from a variety of the administrative roles commonly required in support of global initiatives and engagement. The primary purposes of the group include: streamlining the process of rapidly obtaining accurate information that must be synthesized from multiple central areas that are physically and structurally separate; developing and/or deploying university-wide policies and procedures to facilitate a consistent approach to global engagement enterprise wide; allocation of central resources; development of country specific guides for both operations and faculty/staff; and publishing of a central web resource with tools, templates, etc. to aid in the administration of global projects.

Current membership of the group includes representatives from human resources, payroll, treasury operations, risk management, accounting, tax, procurement, sponsored programs, general counsel, business management and regional campuses.

Baseline Functional Requirements of Global Initiatives



Strengths, Risks & Opportunities

EVPRP Transition

Purdue Research Strengths

- Purdue has strong reputation for fiscal oversight
 - Need to ensure Internal Controls are updated for BPR
 - Rely heavily on account management in business offices
- Strong partnership approach and culture
 - \circ Support robust and diverse Industry sponsorship
 - Flexible industry contracting models that support a wide range of intellectual property options
- Excellent track record for audit compliance
 - Adapt to a more stringent audit environment
- Organizational structure positioning Pre-Award, Contracting and Post Award under a single organizational unit
 - Most Pre-Award (Provost/VPR) & Post Award (Treasurer)
 - Recognized leader in centralized Pre-Award support
- Award-winning data security and recognized strength in export control and information assurance
 - Must develop a new controls and information to assist in understanding Foreign Influence and grow our Gov't research

Risk Considerations/Oversight

- Contract Compliance
 - Industry contracts have a lot of variety
 - Government compliance, controlled projects, data security
 - Government reporting and disclosure requirements
- A133 Compliance Findings
- Confidentiality Breaches
 - Information assurance
- Export Control Violations
- Data Security Violations
- Intellectual Property Liability
 - Background IP Issues
 - Sponsor demands
- Management of Risk
- International tax issues, presence and registration
- Cash flow/billings (documentation requirements)



GM Transformation



BPR Successes for SPS

GM TRANSFORMATION

- **Cost Share Commitment Tab** Much Improved Tracking
- Grant Status Changes System automatically changes the status removing manual processes and providing more timeliness
- **Grant Master Changes** Notes and Invoicing Text required for sponsor invoicing provides ready information for both the sponsor (on the invoice) and also SPS.
- Award Notifications Important information relating to the project is now automatically distributed to the PI and Business Office eliminating manual emails.
- **Dunning Notices** These are now system-generated to provide consistency and timeliness. In addition, the manual effort is eliminated.
- **Cost Share Budgeting** Allows for one source of information on the grant with ability to enter, approve and finalize for transfer of cash from the cost share source.
- **Budget Template** Saves time to eliminate SPS rekeying of budget from the Business Office.
- **Sponsor Code/Business Partner** The new process expedites the establishment of the business partner between SAP and Coeus.
- New Grant Master Data Fields New fields allow SPS to track important information to manage the project.

BPR Impact for Grants Management

				Award Notifications automatic- verbiage changed, copies sent
				Cost Share Commitment Tab tracking and managing much improved
				Dunning Notices automatic,verbiage changed and timing improved
Faculty Allocation Person ID in the WBSE	Setup process - lost simplicity of setup from Internal Order		Sponsor invoicing and backup - still requires a manual signature.	Cost Share Budget - improved and allows more visibility
			Sub-Recipient: substitution roles for faculty	
Loss of Payroll data in AIMS - JVs			FSSR added memo match	Budget Template saves time from keying
	WBSE - Much more to assign	Master data restored	Automatic grant status changes have removed manual processes	
Locking of WBSE		ZGMFORMS calculation and corrections made	Documentation required for sponsor invoicing is in the grant	Sponsor Code Setup is done through Fiori
	Outstanding Checks/Unconverted Grants	F&A Adjustments entered by SPS	master data	New grant master data fields
Functionality not replaced	Functionality replaced but worse	Functionality Replaced In-Kind	Functionality Replaced Improved	New Enhancements



What's Next

Human Research Protection Program

Ianthe "Cookie" Bryant-Gawthrop, M.S., C.R.A., C.I.P. Director, Research Regulatory Affairs and Human Research Protection Program Office of the Executive Vice President for Research and Partnerships



Highlights from the Human Research Protection Program

- Long Awaited Final Implementation of Changes to the Common Rule
 - Triennial Review for Qualifying protocols deemed by IRB to be "No Greater Than Minimal Risk"
 - Increased ability to process HRPP/IRB protocols under exemption categories
- Storing Research Data Using Box
 - Sensitive Data requires special account set-up
- Seeking accreditation from the Association for the Accreditation of Human Research Protection Programs (AAHRPP)¹
 - Respect and reputation for collaborative efforts
 - Enhance standings with sponsors and federal agencies
 - Common commitment to quality improvement



Questions?

Ken Sandel Senior Director, Sponsored Program Services Senior Intellectual Property Officer





Hot Topics

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Breakout Sessions: 9:30-10:40 and 10:50 -12:00

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B) Impact of Transformation on Research Administration (STEW 218) Susan Corwin, Amanda Hamaker

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