PURDUE
UNIVERSITY

Research

Office of the Vice President for Research Centers/Institutes

Research centers and institutes at Purdue are developed to fill a particular need.

- Discovery Park centers extend campus infrastructure to the entire University allowing multidisciplinary groups to come together on campus and respond to grand challenges and opportunities.
- Large project centers or institutes, generally funded by an outside agency, are organized around a specific objective and have a natural lifespan.
- Other centers or institutes vary in size and are formed from faculty initiatives; they are frequently funded by the departments.

Centers and institutes are valued and encouraged at Purdue. They create a venue for faculty to come together to solve a common goal. Additional opportunities for joint projects and funding are created as investigators interact.

- A.H. Ismail Center for Health, Exercise, and Nutrition
- ADVANCE – Purdue Center for Faculty Success
- Advanced Computer Systems Laboratory
- Agricultural Genomics Center (aka Purdue Genomics Core Facility)
- Air Transport Institute for Environmental Sustainability
- Assessment Research Center
- Bindley Bioscience Center
- Birck Nanotechnology Center
- Burton D. Morgan Center for Entrepreneurship
- Center for Direct Catalytic Conversion of Biomass to Biofuels
- Center for Advanced Manufacturing
- Center for Analytical Instrumentation Development
- Center for Assistive Technologies
- Center for Authentic Science Practice in Education
- Center for Biosprays
- Center for Catalyst Design
- Center for Coal Technology Research
- Center for Combinatorial Chemical Biology
- Center for Community and Environment Design
- Center for Computational Homeland Security
- Center for Education & Research in Information Assurance and Security
- Center for Electronic Defense Systems
- Center for Environmental and Regulatory Information Systems
- Center for Families at Purdue University
- Center for Food Animal Well-Being
- Center for Food Safety Engineering
- Center for Global Research and Intervention in Infectious Disease
- Center for Global Trade Analysis
- Center for Global Urban Sustainability: Ensuring Sustainable Health among Underserved
- Center for Health Outcomes Research and Policy
- Center for Impact Science and Engineering
- Center for Implantable Devices
- Center for Integrated Food Manufacturing
- Center for International Business Education and Research
- Center for Laser Micro Fabrication
- Center for Literacy Education and Research
- Center for Materials Processing and Tribology
- Center for Materials Under Extreme Environments
- Center for New Crops and Plant Products
- Center for Nursing History, Ethics, and Human Rights
- Center for Paralysis Research
- Center for Predictive Materials Modeling and Simulation
- Center for Professional Studies in Technology and Applied Research
- Center for Regional Development
- Center for Research and Engagement in Science and Mathematics Education
- Center for Research in Energy Systems and Policy
- Center for Road Safety
- Center for Rural Development
- Center for Security of Large Scale Systems
- Center for Sensing Science and Technology
- Center for Structural Engineering & Emerging Technologies for Nuclear Power Plants
- Center for Thermal Engineering for Military Power Systems
- Center for the Environment
- Center for the Human-Animal Bond
- Center for the Study of Lodging Operations
- Center for Urban and Industrial Pest Management
- Center of Excellence for Laser Based Manufacturing
- Center on Aging and the Life Course
- Center on Religion and Chinese Society
- Center on Visual Analytics for Command, Control and Interoperability Environments
- Confucius Institute at Purdue University
- Cooling Technologies Research Center
- Crop Diagnostic Training and Research Center

Source: Office of the Vice President for Research

Office of the Vice President for Research Centers/Institutes

(continued)

- Cyber Center/Computing Research Institute
- Dane O. Kildsig Center for Pharmaceutical Processing Research
- Dauch Center for the Management of Manufacturing Enterprises
- Discovery Learning Research Center
- Distributed Data Curation Center
- Energy Center
- Envision Center for Data Perceptualization
- Equine Sports Medicine Center
- Food Processing Environmental Assistance Center
- Gifted Education Resource Institute
- Global Policy Research Institute
- Global Women's Health Research Center
- Hardwood Tree Improvement & Regeneration Center
- Herrick Laboratories
- India-US Joint Networked Centre on Nanomaterials for Energy
- Indiana Center for Database Systems
- Indiana Clinical and Translational Sciences Institute
- Indiana University School of Medicine - Lafayette
- Indiana Water Resources Research Center
- Ingestive Behavior Research Center
- Institute for P-12 Engineering Research and Learning
- Institute for Science of Information
- Institute for Thermal-Hydraulics
- International Food Technology Center for Expanding Markets in Developing Countries
- James F. Ackerman Center for Democratic citizenship
- Joint Transportation Research Program
- Laboratory for Application of Remote Sensing
- Laboratory of Renewable Resources Engineering Integrative Center for Biotechnology and Engineering
- Markey Center for Structural Biology
- NASA Specialized Center of Research and Training in Advanced Life Support
- National Biosecurity Resource Center
- National Nuclear Security Administration Center for Prediction of Reliability, Integrity and Survivability of Microsystems
- National Veterinary Cytology Resource Center
- NEXTRANS Center, USDOT Region V Regional UTC
- Network for Earthquake Engineering Simulation
- North Central Superpave Center
- NSF Network for Computational Nanotechnology
- NSF The Science of Information Center
- Oncological Sciences Center
- P-12 Engagement Center
- Perception-based Engineering
- Purdue Center for Professional Selling
- Purdue Institute for Defense Innovation
- Integrity and Survivability of Microsystems
- Product Lifecycle Management Center of Excellence
- Production, Robotics, and Integration Software for Manufacturing & Management
- Purdue Center for Metal Casting Research
- Purdue Center for Serious Games and Learning in Virtual Environments
- Purdue Center for Systems Integrity
- Purdue Climate Change Research Center
- Purdue Digital Enterprise Center
- Purdue e-Business Research Center
- Purdue Electron Microscopy Consortium
- Purdue Homeland Security Institute
- Purdue Interdisciplinary Center for Ecological Sustainability
- Purdue Retail Institute
- Purdue Tourism and Hospitality Research Center
- Purdue University Campus-wide Mass Spectrometry Center
- Purdue University Center for Cancer Research
- Purdue University Cytometry Laboratories
- Purdue-UAB Botanical Research Center for Age-Related Diseases
- Regenstrief Center for Healthcare Engineering
- Renaissance Consortium
- Rolls-Royce University Technology Center in High Mach Propulsion
- Site-Specific Management Center
- State Utility Forecasting Group
- Susan Bulkeley Butler Center for Leadership Excellence
- Technology Resources Center
- Technology-Enhanced Language Learning Center
- Whistler Center for Carbohydrate Research

Source: Office of the Vice President for Research

Office of the Vice President for Research

Research Cores

Research Cores provide access to instrumentation, equipment and facilities (including databases), software, or professional expertise in the design and conduct of specialized measurements, analysis and interpretation of data, and research collaboration. To be considered a unviersity-level research core, research resources should be broadly available to investigators and research teams across the University (and perhaps beyond) and should have a business plan or funding model (academic unit/center backed, recharge, project-by-project funding, etc.). Please contact the core directly about potential collaborations, including more detailed information about capabilities and funding methods.

Name	Web URL or Contact
A.H. Ismail Center	http://www.purdue.edu/Ismail
Advanced Graphics and Visualization Laboratory	http://www.tech.purdue.edu/cgt/appliedresearch/Knoy346.cfm
Agronomy Center of Research and Education	http://www.ag.purdue.edu/agry/acre/Pages/default.aspx
Amy Analytical Instrumentation Center	http://www.chem.purdue.edu/aaic/
Amy Instrumentation Facility	http://jafci.chem.purdue.edu/default.htm
Animal Sciences Research and Education Center	http://www.ag.purdue.edu/ansc/Pages/ASREC.aspx
Archives & Special Collections	http://www.lib.purdue.edu/spcol/
Assessment and Evaluation/ Discovery Learning Research Center	http://www.purdue.edu/dp/learningcenter
Bioinformatics and Discovery Systems Lab	Michael Kane, mdkane@purdue.edu
Biological Sciences Electron Microscopy Facility	http://www.bio.purdue.edu/molecular_biosciences/microscope_facility.html
Biomolecular Cleanroom	http://nano.purdue.edu
Biophysical Analysis Laboratory	http://www.purdue.edu/discoverypark/bioscience/facilities/bioanalytical/
Bioscience Imaging Facility	http://www.purdue.edu/discoverypark/bioscience/facilities/imaging/
Center for Analytical Instrumentation Development	http://www.purdue.edu/dp/caid/
Center for Environmental and Regulatory Information Systems	http://ceris.purdue.edu/ceris/
Center for Global Trade Analsyis	https://www.gtap.agecon.purdue.edu/
Center for Materials Processing and Tribology - Metrology Laboratory	S. Chandrasekar, chandy@purdue.edu; James Mann, jbmann@purdue.edu; Dale Compton, dcompton@purdue.edu
Center for Materials under eXtreme Environment (CMUXE)	https://engineering.purdue.edu/CMUXE/
Central Machine Shop	http://www.purdue.edu/discoverypark/machineshop/
Chemistry Glass Shop	http://www.chem.purdue.edu/glasslab/
Chemistry Machine Shop	http://www.chem.purdue.edu/machine/
Christopher and Susan Burke Hydraulics and Hydrology Laboratory	https://engineering.purdue.edu/CE/H2O
Community Clusters	http://www.rcac.purdue.edu/userinfo/communityclusters.cfm
Computational Life Sciences and Informatics	http://www.purdue.edu/discoverypark/bioscience/researchareas/informatics.php
CTSI Core Facility: Birck Nanotechnology Center BioNanotechnology Labs	Professor James Leary, jfleary@purdue.edu
Cyberforensics Lab	Marcus Rogers, rogersmk@purdue.edu
Digital Enterprise Center	http://www.tech.purdue.edu/cgt/appliedresearch/Knoy373.cfm
Digitization Center	http://www.lib.purdue.edu/spcol/digit
Discovery Learning Research Center	http://www.purdue.edu/dp/learningcenter
Distributed Data Curation Center	http://d2c2.lib.purdue.edu
Educational Research Facilities/Discovery Learning Research Center (DLRC)	http://www.purdue.edu/discoverypark/learningcenter/facilities/facilities.php

Source: Office of the Vice President for Research

Office of the Vice President for Research

Research Cores *(continued)*

Name	Web URL or Contact
Electric Vehicle Technology Demonstration Lab	J. Eric Dietz, jedietz@purdue.edu
Electron Microscopy	http://nano.purdue.edu
Envision Center	http://www.envision.purdue.edu/
Epitaxy	http://nano.purdue.edu
Flow Cytometry and Cell Separation Facility	http://www.purdue.edu/discoverypark/bioscience/facilities/flowcytometry/
Food Science Pilot Laboratory	http://www.ag.purdue.edu/foodsci/Pages/pilot_plant.aspx
Genomics Core Facility	http://www.genomics.purdue.edu/
High Performance Computer Graphics Laboratory	Bedrich Benes, bbenes@purdue.edu
High-Performance Computing and Cyberinfrastructure Research Lab	http://cyberforensics.purdue.edu/
Hub Platform (virtual organizations)	http://hubzero.org/
ICP-MS for Elemental Analysis of Liquids	Linda Lee, lslee@purdue.edu
IDEALab	http://www.idealaboratory.org/
Impact Science Laboratory	https://engineering.purdue.edu/people/weinong.w.chen.1
Integrated Screening Technologies Laboratory	http://www.purdue.edu/discoverypark/bioscience/facilities/ist/
Interdepartmental NMR Facility	http://www.chem.purdue.edu/resources/nmr.asp
Laboratory for Renewable Resources Engineering (LORRE)	http://cobweb.ecn.purdue.edu/~lorre/16/overview/
Laser Research Facility, School of Mechanical Engineering	lucht@purdue.edu, xxu@purdue.edu, shin@purdue.edu
Life Sciences Electron Microscopy Facility	http://www.ag.purdue.edu/facilities/microscopy/pages/default.aspx
Life Sciences Fluorescence Imaging Facility	https://www.agriculture.purdue.edu/clsm/
Lilly Animal Care Facility	Cindy Sanow, sanow@purdue.edu
Machine Shop	http://www.physics.purdue.edu/machineshop/
Macromolecular Crystallography	Tim Schmidt (tschmidt@purdue.edu) or Alan Friedman (afried@purdue.edu)
Maha Fluid Power Laboratory	http://engineering.purdue.edu/Maha/
Mass Spectrometry	http://www.chem.purdue.edu/cwmsc/default.asp
Medical Discovery Resource Unit	turekj@purdue.edu, gemoore@purdue.edu, snyderp@purdue.edu, breur@purdue.edu
Metabolite Profiling Facility	http://www.purdue.edu/discoverypark/bioscience/facilities/mpf/
Microwave Plasma Chemical Vapor Deposition	http://nano.purdue.edu
Mineral Analysis Laboratory	Berdine Martin, bmartin1@purdue.edu
Mobile Application Development Lab	Kyle Lutes, kdlutes@purdue.edu
MSE Materials Preparation and Testing Labs	https://engineering.purdue.edu/MSE/Research/Facilities/General_Labs.html
MSE Microscopy Facility	https://engineering.purdue.edu/MSE/Research/Facilities/Microstructural/EM-Facility.html

Source: Office of the Vice President for Research

Name	Web URL or Contact
MSE X-Ray Characterization Facility	https://engineering.purdue.edu/MSE/Research/Facilities/XRayFacility/index.html
National Test Facility for Fuels and Propulsion	http://www.tech.purdue.edu/at/NATEF/
Optics and Spectroscopy	http://nano.purdue.edu
Pankow Materials Laboratories	Jason Weiss, wjweiss@purdue.edu
Physiological Sensing Facility	http://www.purdue.edu/discoverypark/psf/
PRIME Lab	http://www.physics.purdue.edu/primelab/
PUPIL (Purdue University Psychometric Instruction/Investigation Laboratory)	http://pupil.education.purdue.edu/
Purdue Agriculture Air Quality Lab	https://engineering.purdue.edu/~odor/facilities.htm
Purdue Bone/Body Composition Imaging Core -- Animal DXA	Douglas Maish, maish@purdue.edu
Purdue Bone/Body Composition Imaging Core -- DXA & pQCT	Douglas Maish, maish@purdue.edu
Purdue Bone/Body Composition Imaging Core -- Micro CT	Douglas Maish, maish@purdue.edu
Purdue Malware Lab - FBI Cyber Crime Task Force	Jim Goldman, jgoldman@purdue.edu
Purdue MRI Facility	http://mri.ecn.purdue.edu
Purdue Proteomics Facility	http://www.purdue.edu/discoverypark/bioscience/facilities/ppf/
Purdue Stable Isotope Facility	http://www.eas.purdue.edu/psi/
Purdue Translational Pharmacology Facility	Robyn McCain, rrmccain@purdue.edu
Purdue University Reactor Number 1 (PUR-1)	https://engineering.purdue.edu/NE/Research/Facilities/reactor.html
Ross Biological Reserve	http://www.bio.purdue.edu/ecology/ross-reserve/index.html
SAXS/USAXS Facility	M.T. Harris, mtharris@purdue.edu
Scifres Nanofabrication Cleanroom	http://nano.purdue.edu
Sensory Evaluation Laboratories	http://www.ag.purdue.edu/foodsci/Pages/sensory_lab.aspx
Simulation Lab	http://www.nursing.purdue.edu/centersandclinics/cnes/
Software Solutions	http://www.rcac.purdue.edu/projects/
SPM	http://nano.purdue.edu
Statistics Consulting Service	http://www.stat.purdue.edu/scs/
Surface Analysis	http://nano.purdue.edu
Transgenic Mouse Core Facility	http://www.cancerresearch.purdue.edu/for_reserachers/transgenic_mouse.html
Videoconferencing	http://www.itap.purdue.edu/tlt/gomeet/index.cfm
Vistec Ebeam	http://nano.purdue.edu
Water Quality Field Station	http://www.agry.purdue.edu/water/fieldstn/WQFS.htm#projects
X-ray Crystallography	http://www.chem.purdue.edu/xray/default.asp

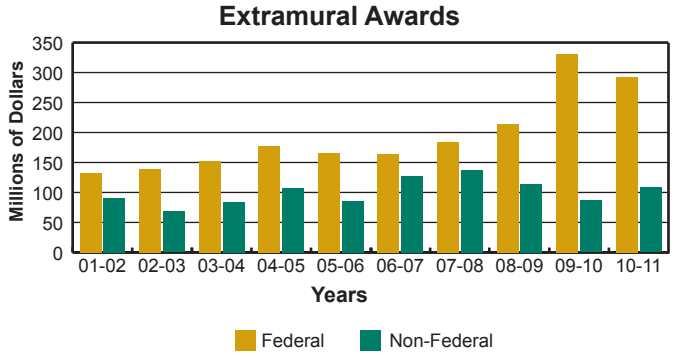
Source: Office of the Vice President for Research

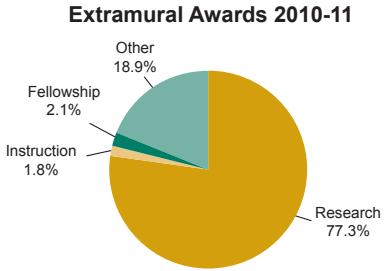
Extramural Awards[1,2,3]

(for Fiscal Years 2001-02 through 2010-11)

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Total Awards	$222.9	$207.7	$235.6	$284.7	$251.6	$292.2	$322.8	$327.5	$418.0	$401.4
Awards by Program:										
Research	$179.0	$155.1	$195.0	$240.1	$195.9	$237.1	$244.4	$258.7	$337.8	$310.2
Instruction	12.4	17.1	13.0	8.0	15.6	7.4	8.2	16.8	11.2	7.1
Fellowship	3.7	9.0	4.1	7.8	7.3	4.1	12.8	7.2	7.8	8.3
Other	27.8	26.5	23.5	28.8	32.8	43.6	57.4	44.8	61.2	75.8
Awards by Source:										
Federal	$132.1	$139.5	$151.8	$177.2	$166.4	$164.0	$184.7	$213.6	$331.4	$293.1
Non-Federal	90.8	68.2	83.8	107.5	85.2	128.2	138.1	113.9	86.6	108.3

[1]In millions of dollars.
[2]Support in collaboration with Development is included.
[3]West Lafayette campus only.





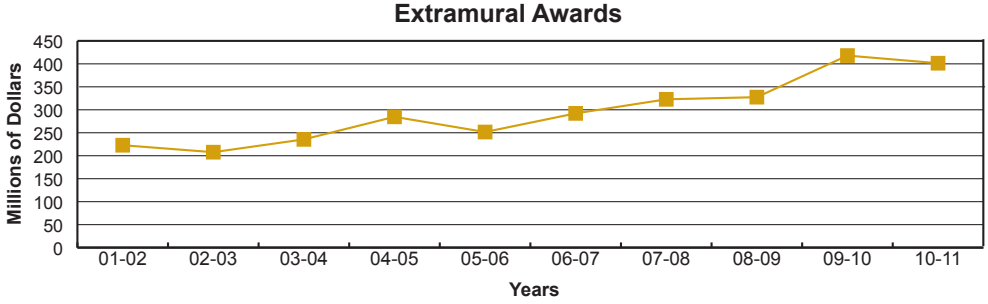
Source: Sponsored Program Services

Extramural Awards by College/School[1,2,3]

(for Fiscal Years 2001-02 through 2010-11)

College/School	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Agriculture	$34.5	$38.8	$41.6	$54.3	$43.6	$66.1	$46.1	$50.2	$60.0	$80.3
Health and Human Sciences	9.2	6.2	9.4	13.0	9.4	13.4	23.0	18.0	13.1	38.4
Education	3.5	2.0	1.2	3.0	1.4	2.3	3.0	3.2	3.3	4.7
Engineering	58.2	71.1	73.1	81.9	76.6	77.0	97.9	109.2	150.4	136.2
Liberal Arts	10.1	9.6	8.5	9.7	10.1	7.8	18.1	14.8	14.6	8.5
Management	7.5	4.2	10.5	3.7	11.8	2.0	1.5	12.5	1.0	1.1
Pharmacy	10.8	11.1	13.5	14.8	16.3	40.3	16.2	16.9	15.7	10.7
Science	47.1	48.4	53.7	56.6	55.8	52.3	52.0	61.5	101.4	73.2
Technology	0.4	0.9	2.1	1.8	3.1	2.9	5.5	3.7	11.6	10.2
Veterinary Medicine	4.4	4.0	4.7	9.9	5.5	5.0	10.5	8.8	9.2	10.8
Discovery Park	0.0	0.0	0.1	0.7	2.2	7.4	17.5	6.6	6.7	6.0
Other	37.2	11.4	17.2	35.3	15.8	15.7	31.5	22.1	31.0	21.3
Total	**$222.9**	**$207.7**	**$235.6**	**$284.7**	**$251.6**	**$292.2**	**$322.8**	**$327.5**	**$418.0**	**$401.4**

[1]In millions of dollars.
[2]Support in collaboration with Development is included.
[3]West Lafayette campus only.



Source: Sponsored Program Services

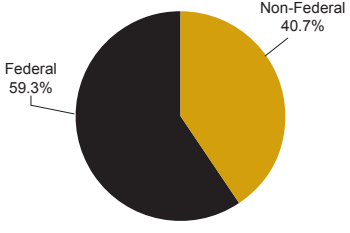
Extramural Awards by Sponsor[1,2,3]

(for Fiscal Years 2001-02 through 2010-11)

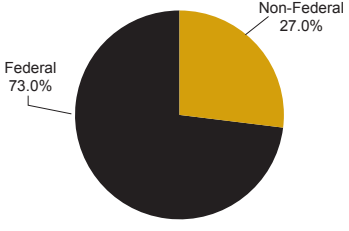
Sponsor	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Department of Health and Human Services	$34.9	$34.6	$44.5	$46.2	$47.8	$50.6	$49.2	$50.6	$80.4	$57.4
National Science Foundation	32.2	37.0	42.9	53.6	46.6	46.4	53.0	65.7	106.6	97.5
Department of Defense	18.6	22.6	14.6	19.7	19.9	21.9	26.9	30.8	34.3	38.7
Department of Agriculture	14.3	12.9	13.9	18.1	13.9	12.0	15.0	14.0	21.3	31.4
Department of Energy	9.3	9.7	14.6	12.7	12.1	14.2	16.2	23.3	47.7	30.6
National Aeronautics and Space Administration	7.2	7.0	9.5	5.7	11.5	4.3	7.6	6.3	5.1	6.0
Other Federal	3.1	3.0	2.4	4.8	5.1	4.7	8.7	10.2	22.3	12.9
Department of Education	2.8	5.8	1.2	6.7	2.6	2.4	1.3	2.1	2.8	4.3
Environmental Protection Agency	3.9	3.3	2.9	4.5	2.5	2.2	1.8	1.9	1.3	2.3
Department of Transportation	3.6	1.2	2.1	2.6	2.4	1.5	3.8	5.7	4.9	3.2
Agency for International Development	2.0	2.1	2.8	2.2	1.5	3.5	0.9	2.8	4.3	8.4
Department of Interior	0.2	0.3	0.4	0.4	0.5	0.3	0.3	0.2	0.4	0.4
Total Federal	**$132.1**	**$139.5**	**$151.8**	**$177.2**	**$166.4**	**$164.0**	**$184.7**	**$213.6**	**$331.4**	**$293.1**
Industrials & Foundations	$67.8	$38.9	$42.5	$69.1	$54.0	$103.2	$78.8	$81.4	$52.7	$62.9
State/Local Government	16.4	21.1	32.5	23.9	19.6	18.6	41.6	22.0	25.4	25.4
Purdue Research Foundation/Purdue University	6.3	7.6	8.2	10.8	9.9	4.9	16.2	9.0	7.1	12.8
Foreign Governments	0.3	0.6	0.6	3.7	1.7	1.5	1.5	1.5	1.4	7.2
Total Non-Federal	**$90.8**	**$68.2**	**$83.8**	**$107.5**	**$85.2**	**$128.2**	**$138.1**	**$113.9**	**$86.6**	**$108.3**
Total	**$222.9**	**$207.7**	**$235.6**	**$284.7**	**$251.6**	**$292.2**	**$322.8**	**$327.5**	**$418.0**	**$401.4**

[1]In millions of dollars.
[2]Support in collaboration with Development is included.
[3]West Lafayette campus only.

Extramural Awards 2001-02



Extramural Awards 2010-11



Source: Sponsored Program Services

Awards[1,2] by Faculty Rank

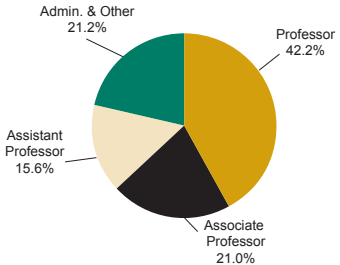
(for Fiscal Years 2006-07 through 2010-11)

	2006-07		2007-08		2008-09		2009-10		2010-11	
Faculty Rank	% Faculty Receiving Awards	Average Award per Faculty Member Receiving Awards	% Faculty Receiving Awards	Average Award per Faculty Member Receiving Awards	% Faculty Receiving Awards	Average Award per Faculty Member Receiving Awards	% Faculty Receiving Awards	Average Award per Faculty Member Receiving Awards	% Faculty Receiving Awards	Average Award per Faculty Member Receiving Awards
Professor	63.5%	$281,807	61.2%	$321,743	63.3%	$333,222	61.2%	$421,605	63.3%	$410,757
Associate Professor	43.2%	179,366	42.5%	221,287	47.9%	197,870	46.4%	286,620	52.5%	256,258
Assistant Professor	60.5%	150,076	59.6%	155,199	49.4%	168,744	55.2%	203,294	57.1%	167,746
Total Faculty	56.6%	225,452	55.2%	255,793	55.6%	265,357	55.7%	341,612	58.8%	321,420

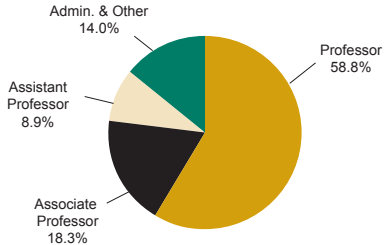
[1]Support in collaboration with development is included.

[2]West Lafayette campus only.

Number of Awards by All Ranks 2010-11
Staff Receiving Awards (N=1,363)



Amount of Awards by All Ranks 2010-11
Awards (Total = $401,362,881)



Source: Sponsored Program Services

Research and Sponsored Program Expenditures by College/School[1, 3]

(for Fiscal Years 2002-03 through 2010-11)

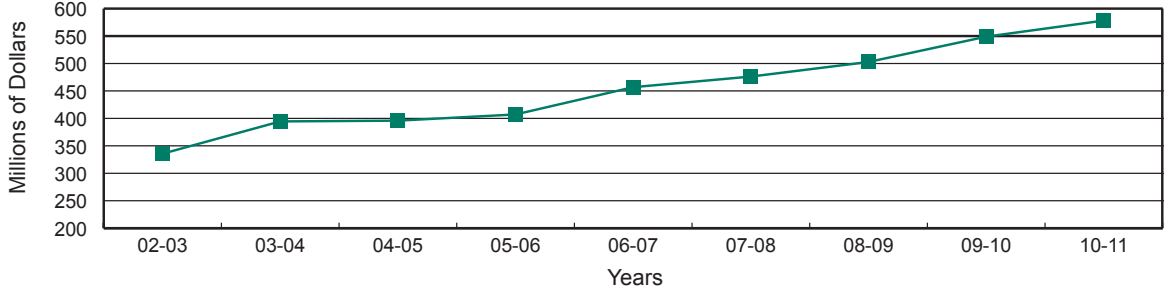
College/School	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Agriculture	$103.7	$113.2	$114.8	$121.3	$131.4	$134.2	$136.4	$144.5	$142.4
Consumer & Family Sciences[2]	12.5	14.2	15.4	15.8	17.7	22.5	22.6	27.2	NA
Discovery Park	4.8	6.7	14.5	28.1	24.8	20.2	20.4	0.9	10.7
Education	3.9	3.2	2.9	2.8	3.6	4.1	4.5	5.1	4.8
Engineering	86.9	112.4	106.3	96.0	120.0	127.1	143.0	161.1	195.3
Health and Human Sciences[2]	NA	NA	NA	NA	NA	NA	NA	NA	41.9
Liberal Arts[2]	12.0	11.5	12.9	11.8	11.7	13.8	16.8	21.3	11.1
Management	11.2	12.4	14.0	13.6	15.0	11.8	12.5	12.5	10.5
Pharmacy[2]	14.0	18.4	16.0	16.8	20.3	20.3	19.7	24.2	16.2
Science	53.6	58.2	60.1	59.9	66.8	66.4	62.9	76.2	82.0
Technology	7.7	14.5	4.5	5.6	5.6	5.0	11.5	8.5	8.6
Veterinary Medicine	13.3	14.4	16.2	16.9	16.7	18.0	18.2	19.8	18.7
Other	12.1	15.4	18.3	18.6	23.3	32.8	34.3	47.6	36.0
Total[3]	**$335.7**	**$394.5**	**$395.9**	**$407.2**	**$456.9**	**$476.2**	**$502.8**	**$548.9**	**$578.2**

[1]In millions of dollars.

[2]The College of Health and Human Sciences was formed administratively on July 1, 2010. Students officially will be enrolled January 2011. The new college brings together nine academic units including all programs from the College of Consumer & Family Sciences; Health and Kinesiology, Psychological Sciences, and Speech, Language and Hearing Sciences from the College of Liberal Arts; and the Health Sciences and Nursing programs from the College of Pharmacy, Nursing and Health Sciences (renamed the College of Pharmacy).

[3]West Lafayette campus only.

Purdue University Research & Sponsored Program Expenditures



Source: Sponsored Program Services

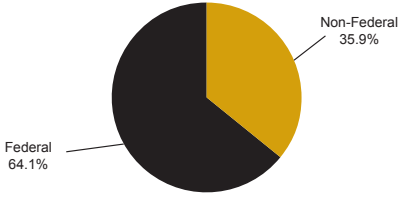
Research and Sponsored Program Expenditures by Sponsor [1,2]

(for Fiscal Years 2002-03 through 2010-11)

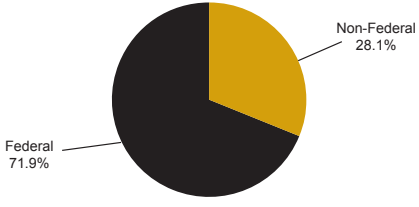
Sponsor	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
National Science Foundation	28.1	34.6	39.0	44.2	45.3	49.0	49.5	71.8	88.2
Department of Health and Human Services	33.7	38.2	42.2	43.8	47.5	49.5	47.2	55.8	59.2
Department of Defense	18.0	20.6	19.7	21.1	21.0	24.6	27.0	32.8	32.8
Department of Agriculture	14.3	17.5	15.6	13.9	12.7	13.9	13.2	15.7	18.8
Department of Energy	10.3	10.1	14.5	12.0	13.2	13.7	19.4	25.2	28.3
National Aeronautics and Space Administration	7.3	8.3	8.5	8.6	9.1	6.1	6.3	5.9	6.0
Other Federal	4.1	2.6	4.1	4.8	4.0	6.1	7.5	10.1	12.1
Department of Education	3.0	2.6	2.6	3.3	3.3	3.0	2.3	3.0	3.0
Department of Transportation	2.4	1.9	1.1	3.0	1.4	2.3	2.4	4.7	3.9
Environmental Protection Agency	3.6	3.6	3.6	2.9	2.5	2.2	2.0	1.9	1.4
Agency for International Development	1.8	1.9	2.3	2.5	2.3	1.7	2.5	4.1	3.8
Total Federal	**126.6**	**141.9**	**153.2**	**160.1**	**162.3**	**172.1**	**179.3**	**231.0**	**257.5**
Industrials	41.3	44.9	51.5	50.5	58.4	64.8	70.4	66.7	64.6
State/Local	21.8	22.5	27.2	27.4	24.3	26.0	26.6	26.6	23.3
Purdue Research Foundation/Purdue University	7.4	8.4	8.6	9.4	9.2	9.6	10.1	10.8	10.8
Foreign Governments	0.3	0.3	0.7	1.9	1.9	1.7	1.3	1.3	2.0
Total Non-Federal	**70.8**	**76.1**	**88.0**	**89.2**	**93.8**	**102.1**	**108.4**	**105.4**	**100.7**
Total Sponsor Expenditures	**197.4**	**218.0**	**241.2**	**249.3**	**256.1**	**274.2**	**287.7**	**336.4**	**358.2**
Institutional	138.3	176.5	154.7	157.9	200.8	202.0	215.1	212.5	220.0
Total West Lafayette Campus	**335.7**	**394.5**	**395.9**	**407.2**	**456.9**	**476.2**	**502.8**	**548.9**	**578.2**

[1]In millions of dollars.
[2]West Lafayette campus only.

Sponsor Expenditures 2002-03



Sponsor Expenditures 2010-11



Source: Sponsored Program Services

Discovery Park

(as of June 2011)

Today's cutting-edge research has become increasingly interdisciplinary, calling on the insights of many researchers. Faculty and students from every discipline, along with collaborators from beyond Purdue University, come together in Discovery Park to solve society's grand challenges.

Discovery Park is a hub of interdisciplinary activity on Purdue's West Lafayette campus. It is designed to be a dynamic entity capable of adjusting to the changing landscape of issues and challenges by providing unique facilities, cutting-edge equipment, and shared spaces for collaborative projects in: life sciences; energy; climate change; environment; healthcare; cancer; nanotechnology; cyberinfrastructure; STEM education (science, technology, engineering and mathematics); and other areas. Discovery Park speeds new inventions and accelerates technology commercialization to create high-tech industry locally and globally.

Discovery Park Core Centers

- Bindley Bioscience Center
- Birck Nanotechnology Center
- Burton D. Morgan Center for Entrepreneurship
- Discovery Learning Research Center
- Global Sustainability Initiative
  - Energy Center
  - Center for the Environment
  - Center for Global Food Security
  - Purdue Climate Change Research Center
  - Purdue Water Community
- Advanced Computational Center for Engineering and Sciences
  - Cyber Center/Computing Research Institute
  - Rosen Center for Advanced Computing (ITaP)
- Oncological Sciences Center
- Regenstrief Center for Healthcare Engineeri

In addition, Discovery Park hosts a large portfolio of projects and project centers that are often shared among several core centers.

- Initiated: 2001 as a sponsored program; is now an integral part of Purdue through the Office of the Vice President for Research
- Location: Discovery Park is developed on 40 acres bounded by State Street on the north, Nimitz Drive on the south, Airport Road on the west, and South Martin Jischke Drive on the east. Its location also fosters collaboration with researchers in the nearby Martin C. Jischke Hall of Biomedical Engineering and the Wayne T. and Mary T. Hockmeyer Hall.
- Space *Added to Date:*
  - Laboratory 113,000 square feet
  - Office Space: 93,000 square feet
- Equipment *Added to Date:* $27 million
- Facilities*:*
  - Burton D. Morgan Center for Entrepreneurship; opened 2004
  - Birck Nanotechnology Center; opened 2005
  - Bindley Bioscience Center; opened 2005
  - Gerald D. and Edna E. Mann Hall; opened 2007
  - Hall for Discovery and Learning Research Center; opened 2009
- *Unique Features*: The facilities are shared university resources. Highly collaborative, interdisciplinary projects are connected throughout Purdue and to Purdue Research Parks. Technology commercialization is facilitated through the Burton D. Morgan Center for Entrepreneurship and the university's strong partnership with the Purdue Research Park. Discovery Park also provides space for Alfred Mann Institute for Biomedical Development at Purdue University.

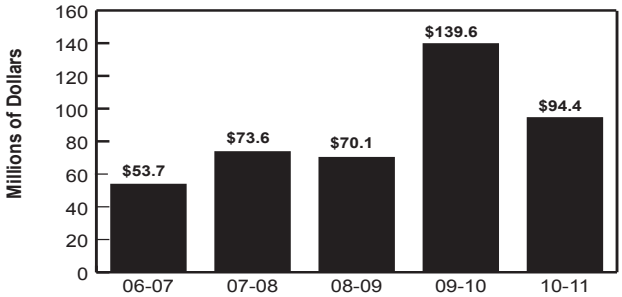
Contact Discovery Park at discoverypark@purdue.edu or visit the Web site at http://www.purdue.edu/dp.

Source: Discovery Park Administration

Discovery Park Extramural Awards[1, 2, 3]

(for Fiscal Years 2006-07 through 2010-11)

Discovery Park Sponsored Awards



Discovery Park Sponsored Awards by Sponsor

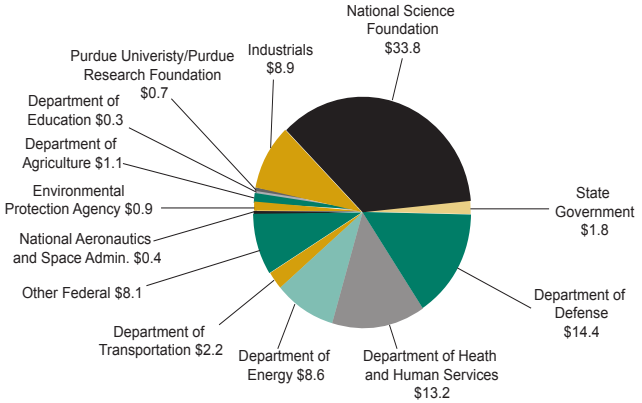
Sponsor	2006-07	2007-08	2008-09	2009-10	2010-11
Industrials	$9.4	$20.0	$10.5	$7.6	$8.9
National Science Foundation	12.3	16.3	21.1	42.2	33.8
State Government	6.9	15.7	3.3	3.3	1.8
Department of Defense	10.2	8.0	13.8	14.5	14.4
Department of Health and Human Services	6.1	5.7	7.1	34.4	13.2
Department of Energy	3.5	4.1	5.4	25.5	8.6
Department of Transportation	0.4	2.2	2.3	2.7	2.2
Other Federal	1.1	0.6	4.2	5.2	8.1
National Aeronautics and Space Administration	1.1	0.5	1.2	1.0	0.4
Environmental Protection Agency	1.2	0.3	0.1		0.9
Department of Agriculture	1.2	0.2	0.4	2.0	1.1
Foreign Governments	0.3	0.0	0.1		0.0
Department of Education			0.4	0.8	0.3
Purdue University/Purdue Research Foundation			0.2	0.4	0.7
Total	**$53.7**	**$73.6**	**$70.1**	**$139.6**	**$94.4**

Discovery Park Sponsored Awards by Contributing College/School

College/School	2006-07	2007-08	2008-09	2009-10	2010-11
Agriculture	$4.3	$5.1	$5.2	$9.4	$8.4
Health and Human Sciences	0.2	0.3	0.6	0.9	1.1
Education	0.2	0.1	0.8	1.2	2.6
Engineering	24.3	23.8	35.5	56.8	47.8
Liberal Arts	0.1	3.4	1.2	0.5	1.3
Management	0.2	-	-	-	0.2
Pharmacy	1.0	2.1	2.3	1.7	1.5
Science	7.0	8.0	11.9	40.5	11.8
Technology	1.3	0.5	1.8	6.6	5.9
Veterinary Medicine	0.7	2.6	0.9	1.4	4.3
Discovery Park	7.4	17.5	6.6	6.7	6.0
Other	7.0	10.2	3.3	13.9	3.5
Total	**$53.7**	**$73.6**	**$70.1**	**$139.6**	**$94.4**

[1]In millions of dollars.
[2]Support in collaboration with Development is included.
[3]West Lafayette Discovery Park only.

Awards by Sponsor 2010-11



Source: Sponsored Program Services

Research Park

(as of September 2011)

Established in 1961, Purdue Research Park in West Lafayette, IN, was the third research park established in the nation. In the late 1990s, Purdue Research Park began its transformation into a true technology park focused on companies operating in the arenas of life sciences, homeland security, engineering, advanced manufacturing and information technology.

Any technology-based company that wants to form strong ties to Purdue University may be considered for park tenancy. The park's owner, developer and manager, the nonprofit Purdue Research Foundation, initially provided emerging technology companies with business development expertise combined with a flexible leasing plan. Expanded offerings now include human resources, media relations and marketing. This strategy led to explosive growth that translated into the largest cluster of technology-based companies in the state. As of September 2011, the Purdue Research Park of West Lafayette has 725 acres, 51 buildings, 159 companies, 3,233 employees and an average annual wage of $63,000.

The park offers many of its industry-leading amenities and services to every company within the park, not just its client firms, and hosts several top-notch business plan competitions, job fairs, an internship program and an entrepreneurship academy.

Today, the foundation welcomes high-tech companies to state-of-the-art technology centers located on park sites throughout Indiana, including:

- Purdue Technology Centers of West Lafayette - Located just north of Purdue University's main campus, the centers serve as the flagship for the 725-acre, award-winning Purdue Research Park. The park is home to 159 companies, of which 110 are technology-related. With 365,000 square feet of incubation space, the centers are considered to be among the largest university-affiliated business incubation complexes in the country. Many of the innovations that emerge from the interdisciplinary research underway at Purdue University will find their "business legs" here. Since 1999, the center's incubation program has graduated 56 companies, of which 27 have remained in the Purdue Research Park of West Lafayette.
- Purdue Technology Center of Northwest Indiana - Located on 393 acres west of I-65 near Merrillville, the 60,000-square-foot facility was Purdue's first satellite technology incubator when it opened in January 2005. It currently serves 23 technology-based companies and four additional companies where nearly 100 professionals work. This center and the Purdue University Calumet Academic Learning Center serve as anchors for the surrounding mixed-use business and technology park.
- Purdue Technology Center of Indianapolis - Opened in 2009, the 55,000-square-foot technology incubator anchors the Purdue Research Park of Indianapolis, which is a 78-acre, Indianapolis-based park being developed by Purdue Research Foundation. It currently serves 15 companies. The park is located along the I-70 corridor and near the midfield terminal of the Indianapolis International Airport.
- Purdue Technology Center of Southeast Indiana - Opened in 2008, the 40,000-square-foot facility is located on 40 acres of land donated by the Shine family, founders and owners of Samtec Inc., an electronic interconnect manufacturer. The center serves nine technology-based companies. The center contains 18,000 square feet of business incubator offices, a district office for the Indiana Small Business Development Center, an office for Purdue Extension Service and classrooms for the Purdue University College of Technology..

Source: Purdue Research Park

PURDUE RESEARCH PARK HONORS

- International Economic Development Council's Excellence in Economic Development Awards for Annual Report, 2011, Population between 25,000-200,000
- Greater Indy Innovation Roundtable's Indiana Innovation Award, DelMar Information Technologies LLC and my COI LLC, 2011.
- Innovation of the Year 2010: Purdue Research Park Entrepreneurship Academy, National Business Incubator Association.
- R&D Award 2010, M4 Sciences LLC, R&D Magazine.
- Peer-reviewed publication "Entrepreneurial Success: The Purdue Research Foundation Finds the Right Formula," Joseph B. Hornett, International Economic Development Journal, 2010.
- Gold Award 2010, Collateral Materials Campaign mixed media, ADDY Awards – American Advertising Federation-North Central Indiana.
- Silver Award 2010, Collateral Materials Campaign brochure, ADDY Awards – American Advertising Federation-North Central Indiana.
- Inc. Magazine 5000: "2010 Fastest Growing Companies in the Country" – Purdue Research Park-based company, Officescape Inc. (*Inc. Magazine*, 2010).
- Indiana "50 Companies to Watch" 2010: Scale Computing Inc. and Vasc-Alert LLC. *(Edward Lowe Foundation, Indiana Economic Development Corp., Purdue University*)
- Sustainable Sites Initiative List 2010, Purdue Research Park of West Lafayette.
- TechPoint Mira Awards 2010:

  Cook Biotech Ind., Health & Life Sciences Company, category winner.

  McClure Services, Excellence in IT category, finalists.

  Purdue Research Park Entrepreneurship Academy, Education Contribution to Technology, category finalist.

Office of Technology Commercialization Activities[1]

(for Calendar Years 2001 through 2010)

Description	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Invention Disclosures	125	117	124	167	213	231	231	209	227	238
Copyright Disclosures	27	30	42	41	24	25	18	18	20	19
Total	**152**	**147**	**166**	**208**	**237**	**256**	**249**	**227**	**247**	**257**
Patent Applications (Worldwide)	241	273	307	275	268	388	399	345	377	364
Provisional Patent Applications (U.S.)	69	97	104	120	130	158	163	161	191	163
Patents Issued (Worldwide)	89	73	93	78	79	80	92	46	97	87
Licenses and Options	73	78	80	87	79	110	99	82	85	99
Royalty Income ($MM)	2.4	3.0	4.4	4.1	4.2	3.8	5.1	3.4	4.2	3.9
Number of Start-Up Companies	10	9	3	3	6	14	8	11	10	11
Equity Acquisitions Under Licenses	7	3	2	3	4	9	4	5	1	2
Number of Trask Innovation Awards	10	9	11	7	9	6	13	2	10	9
Trask Innovation Awards ($MM)	0.5	0.3	0.5	0.4	0.4	0.3	0.5	0.1	0.6	0.5

[1]Includes data for all Purdue Campuses.

Source: Office of Technology Commercialization