
RESEARCH IN REVIEW

a report of research activities for fiscal year
1999-2000



WRIGHT STATE
UNIVERSITY

produced by the Office of Research and Sponsored Programs

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RESEARCH IN REVIEW

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Fall 2000

Dear Colleagues:

On behalf of Wright State University and the Office of Research and Sponsored Programs, it is a pleasure for me to present this report of research activities for the fiscal year 1999-2000 (July 1, 1999, to June 30, 2000).



For the first time in the University's history, Wright State faculty and staff exceeded the \$45 million mark in the quest for externally sponsored projects. This represents a 30% increase over last year and a total increase over the past ten years of 250%. The explosive growth in funded projects during the past decade is indicative of a talented and energetic faculty and staff.

Wright State University's achievements cannot be measured by simple statistics alone, however. Every day the faculty and staff demonstrate their excellence in the sciences, arts, and education, while simultaneously conducting research and publishing these results in peer-reviewed journals. Sponsors run the gamut from the biggest and best known federal agencies to local governments, industry, and foreign agencies. Obviously, the Wright State University community is making an impact at both the national and international levels.

We are proud of the accomplishments of Wright State University and would welcome your comments or requests for further information about our university.

Joseph F. Thomas, Jr.
Associate Provost for Research, and
Dean, School of Graduate Studies

FUNDING HIGHLIGHTS

James P. Amon, Biological Sciences, College of Science and Mathematics, awarded \$341,000 from the Dayton Area Graduate Studies Institute (DAGSI) for a project entitled,

Abiotic and Biochemical Contaminant Fate and Remediation

Dr. Amon investigate abiotic and biochemical processes relating to the fate and degradation of contaminants in subsurface environments.

Larry G. Arlian, Biological Sciences, College of Science and Mathematics, awarded \$306,042 from the National Institute of Allergy and Infectious Diseases (NIAID) for a project entitled,

Scabies: Biology, Culture, Host Specificity and Antigens

This investigator will continue his research to isolate and characterize S. scabiei antigens and to isolate the cell-mediated and humoral response mechanisms to these antigens.

Steven J. Berberich, Biochemistry and Molecular Biology, School of Medicine, awarded \$225,225 from the National Institutes of Health for a project entitled,

MdmX Regulation of the p53 Tumor Suppression Protein

The hypothesis of this project is that the MdmX protein is capable of maintaining p53 protein levels in undamaged cells and thus represents a novel target for regulating tumor activity.

Michael T. Cox, Computer Science and Engineering, College of Engineering and Computer Science, awarded \$304,095 from the Dayton Area Graduate Studies Institute (DAGSI) for a project entitled,

Collaborative Information Systems and Adaptive Work Processes

Agent-based architectures for distributed collaborative planning will be studied.

Jay B. Dean, Physiology and Biophysics, School of Medicine, awarded \$211,379 from the National Heart, Lung, and Blood Institute (NHLBI) for a project entitled,

Intracellular pH Responses of Central Chemoreceptors

Dr. Dean will use a novel technique to study the intracellular pH (pHi) regulation in chemosensitive and chemoinsensitive central neurons and to test the hypothesis that pHi is the proximate chemosensitive signal.

FUNDING HIGHLIGHTS

Jane L. Dockery, Center for Urban and Public Affairs, College of Liberal Arts, awarded \$280,000 from the Clark County Combined Health District for a project entitled,

A Nine County Health Needs Assessment and Planning Process

Together with the Clark County Combined Health District and the Greater Dayton Area Hospital Association, WSU will provide the leadership and collaboration to perform a community health needs assessment and community health plan in nine counties.

Robert E. W. Fyffe, Anatomy, School of Medicine, awarded \$273,321 from the National Institute of Neurological Disorders and Stroke (NINDS) for a project entitled,

Mechanisms of Mammalian Neuronal Integration

This grant provides funding for research into understanding the synaptic and integrative mechanisms involved in motor control circuits in the mammalian spinal cord.

Oscar N. Garcia, Computer Science and Engineering, College of Engineering and Computer Science, awarded \$209,287 from the National Science Foundation for a project entitled,

Speech Driven Facial Animation

These funds will be used to develop a faithful three-dimensional animation of the face of a given speaker, accurately articulating visible speech and preserving the natural synchronism between the utterances of the speaker and the corresponding facial movements.

Ramana V. Grandhi, Mechanical and Materials Engineering, College of Engineering and Computer Science, awarded \$212,466 from the Dayton Area Graduate Studies Institute (DAGSI) for a project entitled,

Computational Nonlinear Aeroelasticity Multidisciplinary Analysis and Design

These funds will enable Dr. Grandhi to develop computational algorithms for the rapid analysis and design of flexible aerospace vehicles.

Shumei S. Guo, Community Health, School of Medicine, awarded \$255,723 from the National Institute of Child Health and Human Development (NICHD) for a project entitled,

Sexual Maturity for U.S. Children: Relationship with Growth

The major focus of the project is on the development of statistical models for analyzing longitudinal data.

FUNDING HIGHLIGHTS

Paul R. Hernandez, Computing and Telecommunications Services, awarded \$350,000 from the National Science Foundation for a project entitled,

High Performance Connection

This funding will provide a very high speed backbone network service (VBNS) connection between WSU and the Ohio Academic Resources network (OARnet) to expand the university's communication within the research and educational community.

I. Michael Leffak, Biochemistry and Molecular Biology, School of Medicine, awarded \$270,305 from the National Institute of General Medical Sciences (NIGMS) for a project entitled,

Analysis of the Human c-myc Gene Replication Origin

Dr. Leffak will identify the structures that define a mammalian DNA replication origin and help understand the mechanism of origin activation.

David C. Look, Semiconductor Research Center, College of Science and Mathematics, awarded \$430,000 from the Air Force Research Laboratory (AFRL) for a project entitled,

Advanced Device Structures

The investigator will study electronic device designs and their application to Air Force systems.

Patricia A. Martin, College of Nursing and Health, awarded \$292,940 from the Health Resources and Services Administration for a project entitled,

Family Nurse Practitioner First and Second Master's

This award will fund the expansion of the second master's and continue the first master's Family Nurse Practitioner (FNP) program at WSU's College of Nursing and Health.

Bonnie K. Mathies, Education and Human Services - Administration, College of Education and Human Services, awarded \$200,000 from Ohio SchoolNet for a project entitled,

K-16 Technology Framework for Ohio Educators

These funds are to be used to design a common K-16 framework based on accepted standards for preparing pre-service and in-service teachers.

James N. McDougal, Pharmacology and Toxicology, School of Medicine, awarded \$248,595 from the Centers for Disease Control and Prevention (CDC) for a project entitled,

Prediction of Irritation Based on Exposure Duration

These studies will help improve our understanding of occupational dermatitis and will help select chemicals that do not cause irritation.

FUNDING HIGHLIGHTS

Stanley R. Mohler, Community Health, School of Medicine, awarded \$412,000 from the National Aeronautics and Space Administration for a project entitled,

Aerospace Medicine Residency Program

This grant will provide continued support for the training of Residents in Aerospace Medicine.

Dennis C. Moore, Community Health, School of Medicine, awarded \$577,032 from the U.S. Department of Education for a project entitled,

Rehabilitation Research and Training Centers (RRTC) on Drugs and Disability

The members of RRTC will continue to address issues of substance abuse, disability, and vocational rehabilitation outcomes, with an emphasis on vocational rehabilitation consumers who experience substance abuse as a co-existing disability.

Jogeshwar Mukherjee, Internal Medicine, School of Medicine, awarded \$200,000 from the U.S. Department of Energy for a project entitled,

Development of Dopamine Receptor Radiopharmaceuticals for the Study of Neurological and Psychiatric Disorders

This grant will be used to continue and extend the development and characterization of high affinity radiopharmaceuticals that are specific for dopamine receptors and that can be used with positron emission tomography (PET) to study various neurological and psychiatric disorders.

Sundaram Narayanan, Biomedical, Industrial and Human Factors Engineering, College of Engineering and Computer Science, awarded \$221,180 from the Dayton Area Graduate Studies Institute (DAGSI) for a project entitled,

Models, Web-Based Simulations and Integrated Analysis Techniques for Improved Logistical Performance

These funds will be used to develop a web-based, portable, and reusable environment for simulation modeling and analysis.

Barbara S. O'Brien, College of Nursing and Health, awarded \$367,184 from the Health Resources and Services Administration for a project entitled,

Online Nurses: RN-BSN Program via the Internet

This grant will enable nurses to complete all nursing courses required for the Wright State University College of Nursing and Health RN/BSN program through distributed learning via the Internet.

FUNDING HIGHLIGHTS

James E. Olson, Emergency Medicine, School of Medicine, awarded \$245,946 from the National Institute of Neurological Disorders and Stroke (NINDS) for a project entitled,

Mechanisms of Cellular Taurine Transport in Brain Edema

This grant provides funding for the investigator to continue to evaluate the process of net osmolyte transfer between brain cells in situ for regulation and maintenance of normal neuronal cell volume.

Daniel T. Organisciak, Biochemistry and Molecular Biology, School of Medicine, awarded \$292,585 from the National Eye Institute (NEI) for a project entitled,

Environmental Light and Retinal Membrane Development

Dr. Organisciak will continue to evaluate the effects of visible light on the composition and metabolism of retinal tissue.

Francis Quek, Computer Science and Engineering, College of Engineering and Computer Science, awarded \$2,536,054 from the National Science Foundation for a project entitled,

Cross-Modal Analysis of Signal and Sense

This funding will furnish the enabling technology for computation, data management, and access, and address scientific questions fundamental to the understanding of human communication.

Blair A. Rowley, Biomedical, Industrial and Human Factors Engineering, College of Engineering and Computer Science, awarded \$270,612 from the Ohio Rehabilitation Services Commission for a project entitled,

Rehabilitation Technology Contract

Funds are provided to conduct a post-graduate professional training program designed to meet the needs of the Ohio Rehabilitation Services Commission.

Kristine A. Scordo, College of Nursing and Health, awarded \$217,963 from the Health Resources and Services Administration for a project entitled,

Acute Care Nurse Practitioner Program

This grant will be used to establish an Adult Acute Care Nurse Practitioner Program (ACNP) within the existing master of science degree program in nursing at Wright State University.

FUNDING HIGHLIGHTS

Harvey A. Siegal, Community Health, School of Medicine, awarded \$2,664,986 from various sponsors for research and services related to drug use and treatment, including \$927,788 from the National Institute on Drug Abuse (NIDA) for a project entitled,

Continuing Study of Case Management Treatment Enhancements

For this project, staff will develop and evaluate an enhanced treatment-induction procedure and an intensive case management/advocacy program.

Roger M. Siervogel, Community Health, School of Medicine, awarded \$1,140,500 from the National Institute of Child Health and Human Development (NICHD) for a project entitled,

Subcutaneous Fat, Blood Lipids, and Subsequent Outcome

The sponsor has provided continued support of the serial analyses of body composition, fat-related variables, and risk factors for growth, development, and disease (the Fels' Longitudinal Study).

Bradford Towne, Community Health, School of Medicine, awarded \$428,837 from the National Institute of Child Health and Human Development (NICHD) for a project entitled,

Genetic Epidemiology of Childhood Skeletal Maturation

These funds will be used to evaluate the genetic involvement in skeletal maturation throughout childhood; locate and determine the significance of as-yet-undetermined genes influencing this skeletal maturation; and evaluate the contributions of multiple gene sites to this process.

Michele G. Wheatly, Biological Sciences, College of Science and Mathematics, awarded \$259,754 from the National Science Foundation for a project entitled,

UMEB: Wright State University Partners with Wilberforce University

This grant will support research in environmental stress for undergraduates with disabilities and ethnic minorities; increase their entry into graduate programs in environmental biology; and foster interdisciplinary approaches to environmental biology upon which to build curricular and research initiatives.

AWARDS

Table 1: Awards by Major Funding Source FY00

Major Funding Source	Number of Awards	Amount Awarded
Federal Agencies	116	\$19,214,165
State Agencies	78	\$13,454,229
Non-Profits	46	\$3,438,066
Industry/Business	131	\$2,959,510
Educational Institutions	35	\$2,657,714
Miscellaneous	20	\$1,843,785
Other Government Agencies	45	\$1,648,637
Foreign Sponsors	4	\$122,943
Total	475	\$45,339,049

Table 2: Awards by Campus Area FY00

Campus Area	Number of Awards	Amount Awarded
School of Medicine	103	\$12,777,203
School of Graduate Studies	11	\$10,756,256
College of Engineering & Computer Science	84	\$8,360,516
College of Science & Mathematics	151	\$5,712,502
Universitywide/Miscellaneous	13	\$1,708,050
Student Services	9	\$1,454,972
College of Nursing & Health	8	\$1,329,317
College of Education & Human Services	19	\$1,264,769
School of Professional Psychology	43	\$875,493
College of Liberal Arts	25	\$799,842
College of Business & Administration	5	\$190,396
Lake Campus	4	\$109,733
Total	475	\$45,339,049

AWARDS

Figure 1

Awards by Major Funding Source FY00

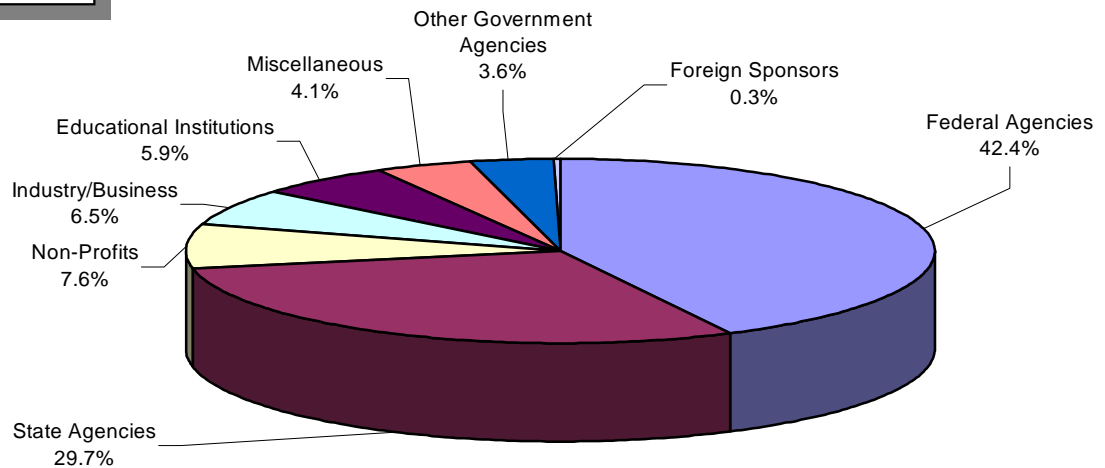
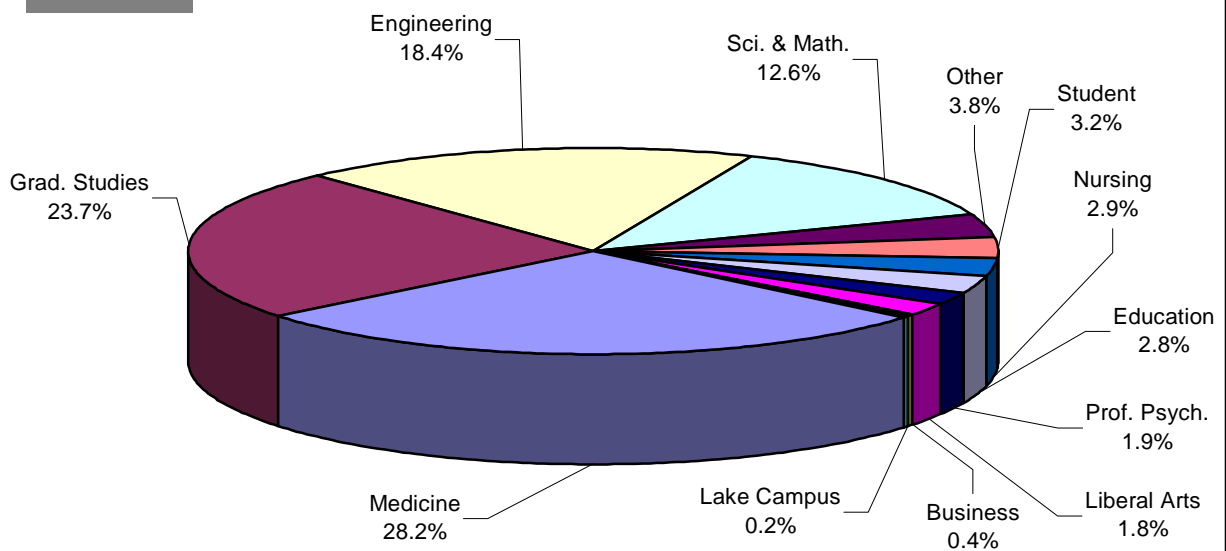


Figure 2

Awards by Campus Area FY00



AWARDS

Table 3: Awards by Type FY99 vs. FY00

Type	FY99		FY00	
	Number of Awards	Amount Awarded	Number of Awards	Amount Awarded
Research	267	\$17,836,997	293	\$24,702,433
Instruction	63	\$2,599,753	79	\$3,776,997
Institutional Support	32	\$9,722,368	35	\$12,429,788
Public Service	79	\$2,868,114	53	\$2,765,367
Student Aid	10	\$1,403,724	11	\$1,648,734
Development	11	\$211,206	4	\$15,730
Total	462	\$34,642,162	475	\$45,339,049

Table 4: Ten Years of Funding: Grant and Contract Awards FY91 to FY00

Fiscal Year	Number of Awards	Amount Awarded	Increase/ Decrease
1990-91	356	\$18,340,673	
1991-92	363	\$20,687,323	13%
1992-93	376	\$23,771,626	15%
1993-94	378	\$22,972,429	-3%
1994-95	439	\$25,207,174	10%
1995-96	457	\$26,104,247	4%
1996-97	535	\$31,336,991	20%
1997-98	462	\$30,283,100	-3%
1998-99	460	\$34,642,162	14%
1999-00	475	\$45,339,049	31%

Awards

Figure 3

Awards by Type FY99 vs. FY00 (in millions)

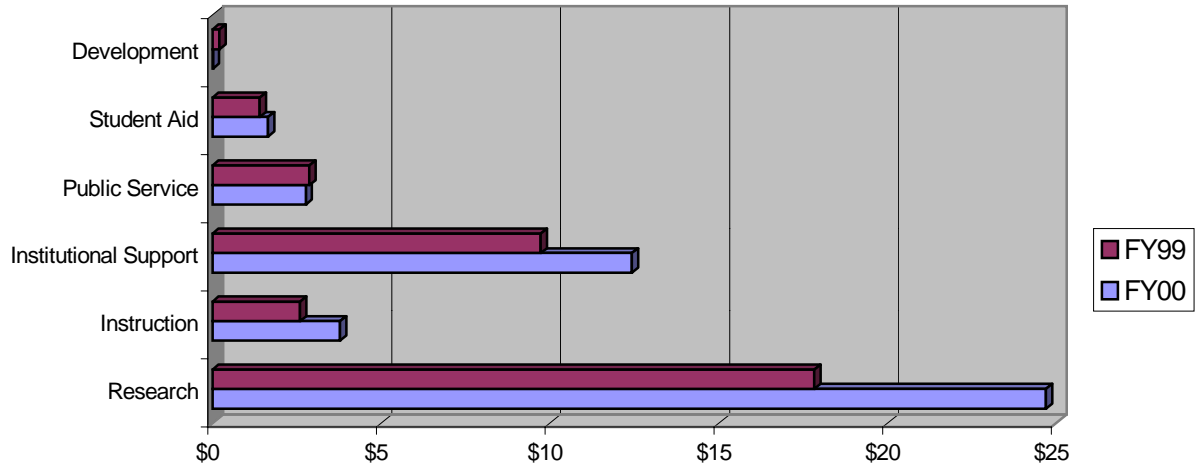
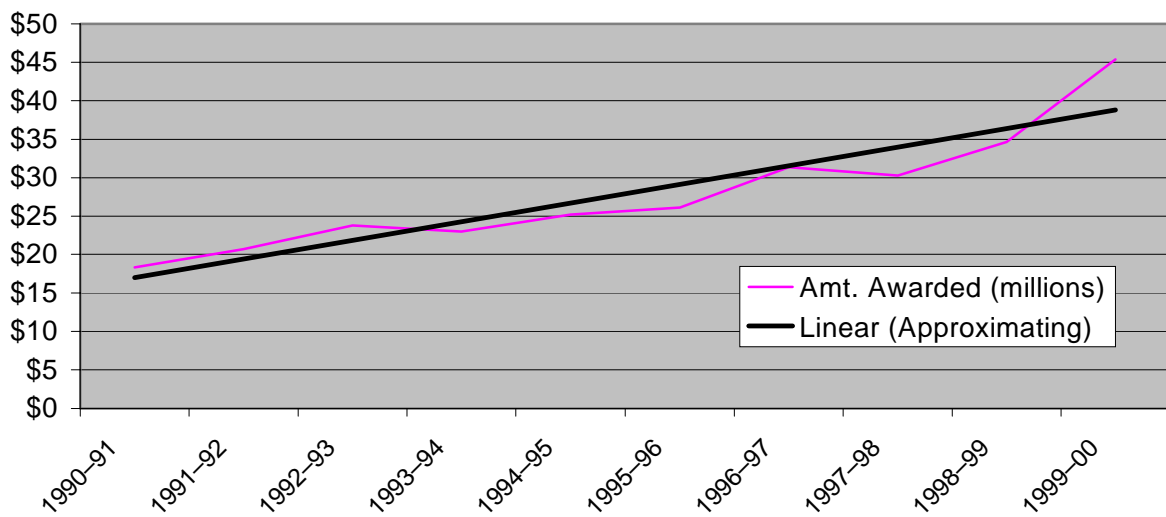


Figure 4

10 Year Trend FY91 to FY00



AWARDS

Table 5: Awards by Type and Campus Area FY00

College/ School	Research	Instruction	Pub. Serv.	Other	Total
Medicine	\$10,106,634	\$217,410	\$1,582,363	\$870,796	\$12,777,203
Grad. Studies	\$855,945			\$9,900,311	\$10,756,256
Engineering	\$7,495,434	\$489,741		\$375,341	\$8,360,516
Sci. & Math.	\$5,049,161	\$371,557	\$1,300	\$290,484	\$5,712,502
Other	\$552,069	\$125,000	\$371,647	\$2,114,306	\$3,163,022
Nursing	\$5,219	\$878,087	\$150,000	\$296,011	\$1,329,317
Education		\$1,223,769	\$41,000		\$1,264,769
Prof. Psych.	\$234,257	\$401,655	\$168,551	\$71,030	\$875,493
Liberal Arts	\$350,000	\$1,000	\$355,773	\$93,069	\$799,842
Business	\$53,714	\$68,778		\$67,904	\$190,396
Lake Campus			\$94,733	\$15,000	\$109,733
TOTAL	\$24,702,433	\$3,776,997	\$2,765,367	\$14,094,252	\$45,339,049

AWARDS

Table 6: Awards by Federal Agency and Campus Area FY00

College/ School	DHHS	NSF	ED	DoD	Other Fed	Federal Total
Medicine	\$7,081,613		\$680,705	\$494,402	\$874,905	\$9,131,625
Engineering		\$3,324,446	\$100,000	\$930,583	\$179,629	\$4,534,658
Sci. & Math.	\$498,231	\$817,616	\$149,926	\$898,573	\$192,359	\$2,556,705
Other	\$70,224	\$350,000	\$1,347,519	\$25,229		\$1,792,972
Nursing	\$949,098					\$949,098
Business			\$66,278	\$50,000		\$116,278
Prof. Psych.	\$71,030					\$71,030
Education			\$61,799			\$61,799
Liberal Arts						\$0
Lake Campus						\$0
Grad. Studies						\$0
TOTAL	\$8,670,196	\$4,492,062	\$2,406,227	\$2,398,787	\$1,246,893	\$19,214,165

SPONSORS

Educational Institutions

*Cleveland State University
Darke County Educational Service Center
Division of Applied Psychology Foundation
Highland Local Schools
Lima Technical College
Loveland City Schools
Miami University
National Space Biomedical Research Institute
Ohio State University
Rochester City Schools
Sinclair Community College
State University of New York (SUNY)
Trotwood-Madison Schools
University of Akron
University of Cincinnati
University of Connecticut
University of Dayton
University of Utah
Virginia Commonwealth University
Wichita State University*

Federal

*Corporation for National & Community Service
DHHS, Centers for Disease Control and Prevention (CDC)
DHHS, Health Resources and Services Administration
DHHS, National Cancer Institute (NCI)
DHHS, National Center for Research Resources (NCRR)
DHHS, National Eye Institute (NEI)
DHHS, National Heart, Lung, and Blood Institute (NHLBI)
DHHS, National Institute of Allergy and Infectious Diseases (NIAID)
DHHS, National Institute of Child Health and Human Development (NICHD)
DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
DHHS, National Institute of General Medical Sciences (NIGMS)
DHHS, National Institute of Neurological Disorders and Stroke (NINDS)
DHHS, National Institute on Aging (NIA)
DHHS, National Institute on Drug Abuse (NIDA)
DoD, Air Force, AFROTC
DoD, Air Force, Air Force Research Laboratory
DoD, Air Force Office of Scientific Research (AFOSR)
DoD, Defense Acquisition University
DoD, Naval Aeromedical Research Laboratory
DoD, Office of Naval Research
DoD, U.S. Military Academy (West Point)
National Aeronautics and Space Administration
National Science Foundation (NSF)
NSF, Course, Curriculum and Laboratory Improvement*

SPONSORS

NSF, Faculty Early Career Development (CAREER)
NSF, International Travel Grant
NSF, Research Experiences for Undergraduates
U.S. Department of Agriculture
U.S. Department of Education
U.S. Department of Education, FIPSE
U.S. Department of Energy
U.S. Department of Transportation, Federal Aviation Administration
U.S. Environmental Protection Agency
Veterans Affairs Medical Center

Foreign

Advanced Telecommunications Research Integration and Communications Research Laboratories
Japan Atomic Energy Research Institute
Laboratorios Dr. Esteve, S.A.
United Kingdom Divisions of Elf and Total

Industry/Business

A & S Pacific International, Inc.
Alcon Laboratories, Inc.
Aldrich Chemical Company
Allergy Laboratories, Inc.
American Society for Quality
Analytical Laboratories, Inc.
Artemis
Astra Arcus USA
ATANOR
Automotive Systems Laboratory, Inc.
Bio Gro
Cabot Corporation
Camelot R&D, Inc.
Children's Medical Center
Cincinnati Center for Developmental Disorders
Clorox Company, The
CompuTown
Copeland Corporation
Covance, Inc.
Darke County Mental Health Center
Delphi Chassis Systems
Delphi Harrison Thermal Systems
Dettmer Hospital
DWJ Television
Elsevier Science
Employee Care of Miami Valley and Good Samaritan Hospitals
Franciscan Health System of the Ohio Valley, Inc.
Genencor International, Inc.
Gilead Sciences, Inc.
Grand Lake/Mercer County Research, Inc.

SPONSORS

Harding Lawson Associates
Iams Company, The
International Sleep Products Association
Kettering Medical Center
Klein Associates, Inc.
MetLab, Division Metallurgical Services, Inc.
Miami Valley Hospital
Mission Research Corporation
Mound Laser and Photonics Center, Inc.
NCR Corporation
New York Organic Fertilizer Company
Norwich Consulting Services, Ltd.
N-Viro International Corp.
Ohio Aerospace Institute
Oxy Vinyls LP
Pain Care Institute
Panterra Corporation
Paracelsian, Inc.
Pfizer, Inc.
Procter & Gamble Company
Redamo Ventures
Research Corporation
Roy F. Weston, Inc.
S.C. Johnson Wax
Samaritan Center for Youth Resources
Southdown, Inc.
St. Joseph Children's Treatment Center
Superconductive Components, Inc.
Sverdrup Technology, Inc.
Systran Corporation
Systran Federal Corporation (SFC)
Technical Management Concepts, Inc.
TEFAL
TIMET
Twin Valley Psychiatric System
U.S. Meat Export Federation
Universal Energy Systems, Inc. (UES, Inc.)
Universal Technology Corporation
University Medical Services Association
Varian Associates, Inc.
Velsicol Chemical Corporation
Wheelabrator Technologies

Non-Profit

AIDS Foundation of Miami Valley
American Federation for Aging Research, Ohio Affiliate
American Heart Association — National
American Heart Association — Ohio Valley Affiliate

SPONSORS

*C.F. Kettering Foundation
Children's Hospital Medical Center
Dayton Area Graduate Studies Institute (DAGSI)
Dayton Business Committee
Dayton Urban League
Eppley Foundation for Research, Inc.
Health Foundation of Greater Cincinnati
Iddings Foundation
Institute for Educational Inquiry
Miami Valley Competency Profiling Systems, Inc.
National Alliance for Autism Research
Ohio Academy of Family Physicians Foundation
Ohio Lions Eye Research Foundation (OLERF)
Oncology Nursing Foundation
Petroleum Research Fund - American Chemical Society
Project C.U.R.E., Inc.
Reach Out of Montgomery County
Scripps Gerontology Center
Susan G. Komen Breast Cancer Foundation
Talbert House
Whitaker Foundation*

Other Government

*Board of Lucas County Commissioners (Ohio)
Butler County Mental Health Board
City of Dayton Office of Management and Budget
City of Fairborn, Ohio
City of Memphis, Tennessee
City of Riverside, Ohio
City of Sturgis, Michigan
City of Troy
City of Wyoming, Michigan
Clark County Combined Health District
Greene County Department of Development
Miami Conservancy District
Montgomery County ADAMH Services Board
Montgomery County Combined Health District
Montgomery County Community Development Office
Montgomery County Juvenile Court
Montgomery County Sheriff's Office
Shelby County Counseling Center
South Community Mental Health Center
State of Alabama
State of California
State of Connecticut
State of Florida
State of New York
State of Tennessee*

SPONSORS

State of Texas
State of West Virginia
Village of Lodi, Ohio

State of Ohio

Edison Materials Technology Center (EMTEC)
Ohio Arts Council
Ohio Board of Regents
Ohio Commission on Minority Health
Ohio Department of Aging
Ohio Department of Alcohol & Drug Addiction Services
Ohio Department of Development
Ohio Department of Education
Ohio Department of Health
Ohio Department of Human Services
Ohio Department of Mental Health
Ohio Department of Rehabilitation & Correction
Ohio Department of Transportation
Ohio Historical Society
Ohio Humanities Council
Ohio Rehabilitation Services Commission
Ohio SchoolNet
Ohio Sea Grant College Program
Ohio Supercomputer Center

OVERVIEW

The Office of Research and Sponsored Programs (RSP) works with faculty and staff at Wright State University (WSU) to increase externally funded research and other sponsored programs.

RSP staff members provide the following services:

Identification of External Sources of Funding

WSU subscribes to SPIN (Sponsored Programs Information Network), an electronic funding database of thousands of funding opportunities, available through the World Wide Web (WWW). In addition, WSU is a member of the Community of Science (COS), a resource for scientific information on the WWW. Membership in COS offers to WSU faculty a Funding Opportunities database, an Expertise database, “Faculty Match” software, “Funding Alert” e-mailed reminder system, and access to other COS databases. RSP also maintains a library of reference materials and monitors federal, state, and local newsletters, and publications for funding opportunities.

Dissemination of Funding Information

RSP produces ***Funding Update***, a semi-monthly electronic bulletin of upcoming deadlines for funding programs, and ***Research News***, a newsletter published three times per academic year, which covers grants awarded and related topics of interest. RSP maintains a computerized research interest profile database of over 600 WSU faculty and staff.

Liaison with Sponsors

RSP staff members serve as liaisons with public and private sponsors to discuss preliminary proposals, study and interpret program priorities and funding levels, observe trends in federal and non-federal programs; monitor proposals that have been submitted and attempt to expedite their review; stimulate interest in WSU by providing sponsors with information about faculty and staff research interests; and arrange for sponsors to visit WSU to discuss their funding programs.

Proposal Development and Preparation

RSP staff will help faculty develop preproposals, review proposals for completeness and proper assembly, interpret guidelines and regulations, present workshops on grantseeking, and assist faculty in locating alternative sources of funding.

Budget Preparation

RSP offers expertise in developing and reviewing final budget drafts that accurately reflect grant expenses, comply with university regulations, and meet agency guidelines, and assists in setting up computerized spreadsheets to develop multi-year budgets.

OVERVIEW

Institutional Authorization

RSP is the central office for the institutional review process for requests for external support; staff will obtain the appropriate necessary signatures.

Proposal Transmittal

RSP will make the necessary copies of the proposal, mail the proposal to the agency, and maintain files for tracking submissions.

Institutional Compliance

RSP staff checks for proper review and approval of all research involving animal use, human subjects, hazardous wastes, radioactive materials, recombinant DNA, and security classifications.

RSP administers the Institutional Review Board, the Institutional Biosafety Committee, the Laboratory Animal Care and Use Committee, and acts as a liaison with the University Radiation Safety Committee, and the Biological Chemical Health and Safety Committee.

Technology Transfer

RSP is the initial contact for information on copyrights and patents. WSU enlists the assistance of various technology transfer programs to help faculty in the evaluation, patenting, and licensing of inventions

Administration of Externally Funded Programs

Following award notification, RSP will establish a budget and account number for the project, assist the project director in the orderly administration of the project, act as liaison between the sponsor and Principal Investigator (PI), keep the PI apprised of technical reports due dates, finalize all budget transfers, and prepare and submit fiscal reports.

Administration of Internally Funded Programs

RSP coordinates WSU's four internal grant programs: Research Initiation Grants, Professional Development Grants, Research Challenge, and Research Travel.

Contract Negotiations

RSP staff is authorized to negotiate the terms of awards with potential sponsors.

Government Security

RSP is the clearinghouse for all government security matters involving WSU employees. RSP processes security clearances, monitors security activities and processes passes and credentials for individuals working on Department of Defense contracts and for research conducted on federal property.

OFFICE OF RESEARCH AND SPONSORED PROGRAMS

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