

# FACTS FY2017

The University of Washington is one of the world's preeminent public universities. The UW research funding profile has tripled over the last twenty years with grant and contract totals of an astounding \$1.628B for FY17 (up from \$1.367B in FY16). The University's track record of receiving federal research funding has enabled investments in targeted initiatives and research to stay globally competitive. We are one of the few universities in the U.S. with total research funding over \$1B. Rankings by the Institute of Higher Education at China's Shanghai Jiao Tong University place the UW at 13th among the world's top universities (a ranking held since 2007). The National Taiwan University ranked the UW sixth overall (fourth nationally) and first in public universities worldwide for the quality and impact of research endeavors, and for 2018, US News ranked UW 10th among world universities in the "Best Global Universities Rankings." We are investing in our future by enabling research advances that maintain our impact and competitiveness. Our research funding continues to grow which is a testament to the quality of our students, faculty, and their research teams.

## RESEARCH FUNDING

- \$1,628,491,114 total sponsored grants and contracts
- \$1,033,812,778 federal funding
- \$594,678,336 non-federal funding
- 5,174 grants, including 195 grants over \$1M

## ECONOMIC AND EDUCATIONAL IMPACT

- In FY17, UW launched 15 start-up companies based on UW research advances, bringing the 11-year total to 151 technology start-ups.
- In FY17, UW technologies generated over \$17M in licensing revenue.
- According to the most recent AUTM data (FY16), compared to other U.S. universities, UW was first in technologies licensed (657), first in commercialization agreements executed (326), third in total active licenses (1,288), and eight in technology startups (21).
- In Academic Year 2016-2017, 5,621 unique students engaged in university-sponsored public service for 8,069 student-quarters, contributing a total of 495,152 hours of public service to local, regional, and global communities.
- In Academic Year 2016-2017, 8,411 unique students worked under the close guidance of UW faculty mentors for 12,594 student-quarters, spending approximately 1,450,259 hours devoted to research.
- In Academic Year 2016-2017, 2,561 unique students completed university-affiliated internships for 4,137 student-quarters, spending approximately 417,163 hours at internship sites.
- Sponsored projects supported 5,731 full-time equivalent employees during FY17. Based on economic multipliers provided by the Washington State Higher Education Coordinating Board, UW research funding generated about 25,216 jobs statewide.
- In academic year 2016-2017, 2,661 graduate students were supported on research grants and contracts, including 173 NSF graduate fellows and 477 graduate students on training grants. In addition, 1,227 post-doctoral fellows were supported by UW grants and contracts. Graduate and undergraduate students contributed to 41% of the 652 patent applications that the UW filed.

## UW FACULTY HONORS

- American Academy of Arts and Sciences: 93 members
- American Association for the Advancement of Science: 181 Fellows
- National Academy of Medicine: 63 members
- National Academy of Engineering: 31 members
- National Academy of Sciences: 81 members
- Gairdner International Awards: 10 recipients
- Albert Lasker Medical Research Awards: 6 recipients
- National Medal of Science: 6 recipients
- MacArthur Fellows: 15 recipients
- National Academy of Public Administration: 2 recipients
- Presidential Medal of Freedom: 1 recipient

## UW FACULTY NOBEL PRIZES

Since 1989, seven UW faculty members have won Nobel Prizes. Since 1990, five have won Nobel Prizes in medicine, more than any other institution during that time period.

- Hans Dehmelt, Professor Emeritus in Physics, 1989 Nobel Prize in Physics for research on immobilizing single subatomic particles
- E. Donnall Thomas, Professor Emeritus in Medicine, 1990 Nobel Prize in Physiology or Medicine for research on bone marrow transplantation, done primarily at the Fred Hutchinson Cancer Research Center
- Edwin Krebs and Edmond Fischer, Professors Emeriti in Biochemistry and Pharmacology, 1992 Nobel Prize in Physiology or Medicine for discovery of reversible protein phosphorylation
- Leland Hartwell, Professor of Genome Sciences and Adjunct Professor of Medicine, 2001 Nobel Prize in Physiology or Medicine for discoveries of key regulators of the cell cycle
- Linda Buck, Professor of Microbiology and Psychology, Affiliate Professor of Physiology and Biophysics, 2004 Nobel Prize in Physiology or Medicine for discoveries of odorant receptors and the organization of the olfactory system
- David Thouless, Professor Emeritus in Physics, 2016 Nobel Prize in Physics for exploring exotic states of matter

## MAJOR RECENT GRANTS

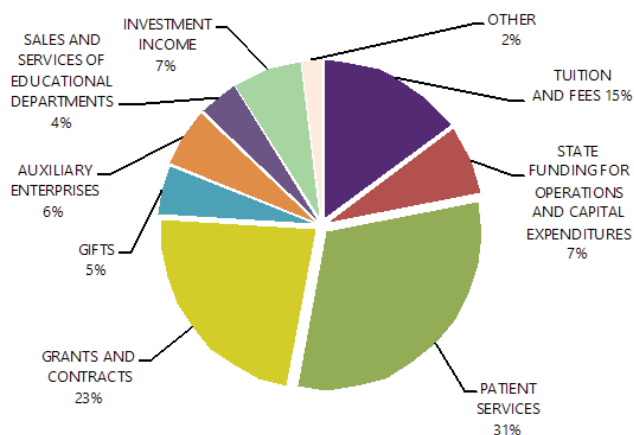
- \$8M for five years to support computational immunogen and vaccine design, together with the establishment of a Good Laboratory Practice protein production capability at the University of Washington's Institute for Protein Design (UW-IPD) to support manufacturing of candidate vaccine products for pre-clinical research and technology transfer. PI: David Baker.
- \$3M for five years for the NSF's National Research Traineeship (NRT) program to develop a graduate training program at the interface of clean energy and data science. The program supports new research directions in data intensive discovery of new energy materials. PI: Jim Pfaendtner.
- \$2.65M for five years from NIH's High-Risk, High-Reward research program to build artificial heart tissue that can be remotely controlled after transplantation in a patient. PI: Kelly R. Stevens.
- \$2.6M for four years from the Department of Defense to test a telehealth intervention to increase treatment engagement and reduce symptoms among active duty soldiers with symptoms of post traumatic stress at Joint Base Lewis-McChord. PI's: Denise Walker & Debra Kaysen (PBSCI)

## RESEARCH CENTERS

There are over 296 specialized research centers at the UW. There are over 20 National Institutes of Health Research Cores and Centers of Excellence, including the Institute for Translational Health Sciences, one of 60 NIH funded national Clinical and Translational Sciences Awards (CTSA). Leading centers include:

- Barnard Center for Infant Mental Health and Development
- Center for Advanced Materials in Transport Aircraft Structures
- Center for AIDS Research
- Center for Enabling New Technologies through Catalysis
- Center for Experimental Nuclear Physics and Astrophysics
- Center for Information Assurance and Cybersecurity
- Center for Integrative Neuroscience
- Center for Intracellular Delivery of Biologics
- Center for Law in Science and Global Health
- Center for Sensorimotor Neural Engineering
- Centers for Comparative and Health Systems Effectiveness
- Cleary Community for 21st Century Youth Literacy
- Comparative Law and Societies Studies Center
- Diabetes and Obesity Center of Excellence
- Harborview Injury Prevention and Research Center
- Indigenous Wellness Research Institute
- Institute for Health Metrics and Evaluation
- Institute for Learning and Brain Sciences
- Institute for Nuclear Theory
- Institute for Stem Cell and Regenerative Medicine
- Joint Institute for the Study of the Atmosphere and Ocean (JISAO)
- Molecular Engineering and Sciences Institute
- Pacific Northwest Cooperative Ecosystems Study Center
- Pacific Northwest Udall Parkinson's Disease Center
- Pharmacogenomics Research Network
- Polar Science Center
- Resuscitation Outcomes Consortium
- UW Global Center for Integrated Health of Women, Adolescents, and Children
- Walter Chapin Simpson Center for the Humanities
- West Coast Poverty Center

## SOURCES OF FUNDS



SOURCE: UW ANNUAL REPORT 2017

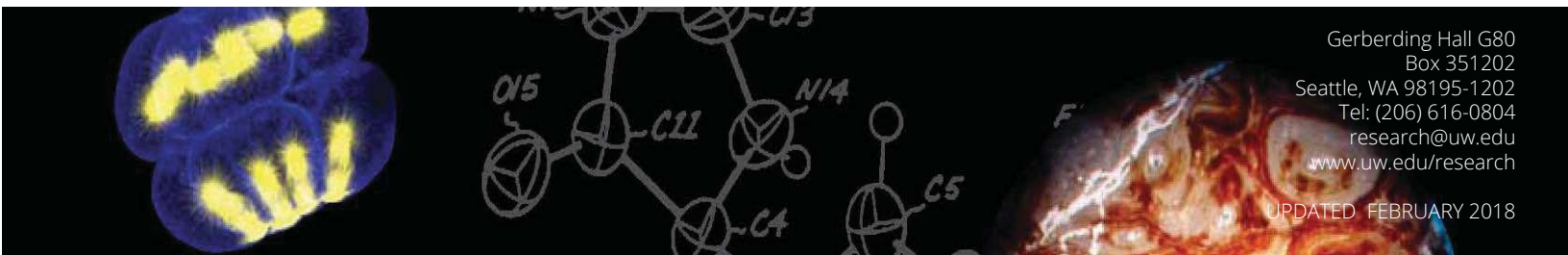
## SOURCES OF UW RESEARCH AWARDS<sup>1</sup>

Department of Agriculture	\$8,448,859
Department of Commerce	\$31,211,390
Department of Defense	\$78,132,885
Department of Education	\$18,375,923
Department of Energy	\$27,996,668
Department of Health and Human Services	\$679,254,923
Department of the Interior	\$6,294,803
Department of Transportation	\$4,776,525
Department of Veterans Affairs	\$6,706,219
Environmental Protection Agency	\$4,825,480
National Aeronautics and Space Administration	\$22,869,704
National Science Foundation	\$121,403,672
Other Federal	\$23,515,727
Associations and Non-Profits	\$62,952,867
Foundations	\$407,724,811
Industry	\$92,384,283
Local Government	\$4,677,853
Other Government	\$3,019,824
State of Washington	\$20,446,127
U.S. Institutes of Higher Learning	\$3,472,572
<b>Total Grant and Contract Awards</b>	<b>\$1,628,491,114</b>

## RESEARCH AWARDS BY SCHOOL AND COLLEGE<sup>2</sup>

College of Arts and Sciences	\$105,796,475
College of Built Environments	\$1,285,297
College of Education	\$25,155,701
College of Engineering	\$95,413,049
College of the Environment	\$106,432,529
CoMotion	\$2,199,998
Dean of Libraries	\$8,380,119
Evans School of Public Policy & Governance	\$1,977,208
Foster School of Business	\$786,702
Graduate School	\$10,741,961
Health Sciences Administration	\$9,983,739
Medical Centers	\$350,000
Office of Minority Affairs and Diversity	\$6,694,224
Office of Research	\$53,124,770
Office of the Provost	\$62,883
School of Dentistry	\$3,498,960
School of Law	\$8,221,335
School of Medicine	\$1,010,811,359
School of Nursing	\$11,140,427
School of Pharmacy	\$28,781,380
School of Public Health	\$112,254,049
School of Social Work	\$13,700,357
The Information School	\$2,110,844
Undergraduate Academic Affairs	\$922,640
UW Bothell	\$5,461,355
UW Student Life	\$45,444
UW Tacoma	\$3,158,310

1, 2 SOURCE: [UW ANNUAL REPORT OF AWARDS AND EXPENDITURES](#), FY 2017



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