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February 24, 2016

California Congressional Delegation

Dear Members of Congress:

As Congress begins work on appropriations for Fiscal Year (FY) 2017, the University of California (UC) urges your full support for federal programs that are critical to UC's ability to successfully carry out its education, research, health-care, and public service missions.

The attached document outlines the University's FY 2017 federal appropriations priorities.

UC is the largest public research university system in the world and is an engine for economic growth and innovation for California and the nation. Several years of budget challenges have resulted in deep cuts in programs of importance to the University, especially in research and education programs funded from the non-defense discretionary portion of the federal budget. Given the ongoing funding constraints moving forward, the University is pleased that the Bipartisan Budget Act of 2015 restored some of the funding lost in sequestration and maintained separate caps and firewalls between defense and nondefense programs through FY 2017.

While the attached document includes the full range of UC's FY 2017 appropriations priorities, I would like to call your attention to the following areas that are of specific importance to the University of California:

- **Pell Grant Program:** UC supports strong and sustained funding for the Pell Grant Program and the restoration of year-round Pell Grants. UC enrolls a higher percentage of Pell Grant recipients than its peer research universities and it educates eight times as many low-income students as the entire Ivy League combined. Pell Grants are an integral part of the financial aid packages UC offers to its students and, importantly, Pell Grant recipients graduate at rates similar to those of all freshmen and transfer students.
- **Basic and Applied Research:** The University supports full funding for research, especially at the National Institutes of Health (NIH), the National

Science Foundation (NSF), and the Department of Energy (DOE). UC researchers are well positioned to compete for competitive grants across the full spectrum of research program, from cancer and Alzheimer's disease to agriculture, energy and environment, and national security.


- **Multi-Agency Research Initiatives:** The University supports funding for multi-agency research initiatives, such as the BRAIN (Brain Research through Advancing Innovative Neurotechnologies), Precision Medicine, advanced manufacturing, clean energy, water and climate, computing and cybersecurity initiatives. In many instances, the University is already contributing significantly to these efforts.

Congressional support for UC's priorities will ensure that the University remains accessible to all eligible students, regardless of income; provides access to quality health-care services and medical education through our academic medical centers; and, supports research to pursue the scientific and technological breakthroughs that keep our state and the nation at the forefront of innovation and economic development.

Thank you for your continued support of the University of California. The priorities outlined in the attached document are listed by appropriations subcommittee for your consideration. In addition, the document is available online at www.ucop.edu/federal-governmental-relations/federal-budget.

If you have any questions, please do not hesitate to get in touch with me or UC Associate Vice President for Federal Governmental Relations Gary Falle. He can be reached at (202) 974-6319 or by email at Gary.Falle@ucdc.edu.

Yours very truly,


Janet Napolitano
President

Enclosure

cc: Provost Aimée Dorr
Senior Vice President Nelson Peacock
Associate Vice President Gary Falle

University of California Fiscal Year 2017 Appropriations Priorities

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SUBCOMMITTEE ON AGRICULTURE, RURAL DEVELOPMENT, FOOD AND DRUG ADMINISTRATION, AND RELATED AGENCIES

DEPARTMENT OF AGRICULTURE (USDA), NATIONAL INSTITUTE OF FOOD AND AGRICULTURE (NIFA)

The University of California (UC) supports the highest possible funding levels for USDA Research, Education and Extension Programs that enable UC’s partnership with California’s agricultural producers in ensuring a safe, secure and plentiful supply of food and energy, as well as clean and sustainable air, water and other natural resources. USDA funding also supports UC’s effective nutrition education efforts throughout California. Programs vital to UC include:

Agriculture and Food Research Initiative (AFRI)

UC Request:	\$700 million
FY 2017 Budget Request:	\$700 million
FY 2016 Enacted:	\$350 million

UC supports \$700 million for the Agriculture and Food Research Initiative (AFRI), which funds competitive research on human nutrition and health, agricultural productivity and sustainability, renewable energy and biofuels, water supply, and air and water quality. UC scientists typically receive 10-15 percent of competitive USDA research grants.

USDA Capacity Grants programs – Hatch Act, Smith-Lever 3(b)-3(c) and McIntire-Stennis Cooperative Forestry

	<u>Hatch Act</u>	<u>Smith-Lever 3(b)-3(c)</u>	<u>McIntire-Stennis</u>
UC Request:	\$256.2 million	\$304 million	\$35.5 million
FY 2017 Budget Request:	\$244 million	\$300 million	\$34 million
FY 2016 Enacted:	\$244 million	\$300 million	\$34 million

UC supports the requested funding levels above for the Hatch, Smith-Lever 3(b)-3(c) and McIntire-Stennis capacity grant programs, which are crucial to UC’s agricultural research and extension work, and are vitally important given the current California drought. The programs enable UC to support California agricultural producers by improving varietal development, production efficiencies, cropping methods and conservation practices.

USDA Crop Protection/Pest Management (CP/PM) and Minor Crop Pest Management (IR-4)

	<u>CP/PM</u>	<u>IR-4</u>
UC Request:	\$20.2 million	\$12 million
FY 2017 Budget Request:	\$20.2 million	\$12 million
FY 2016 Enacted:	\$17.2 million	\$12 million

UC supports \$32.2 million for these USDA Pest Management programs, including research, extension and integrated activities. The programs support UC’s statewide Integrated Pest Management

(IPM) program, which develops and promotes the use of ecologically sound programs to solve pest problems while protecting California's agricultural crops.

Expanded Food and Nutrition Education Program (EFNEP)

UC Request:	\$68 million
FY 2017 Budget Request:	\$68 million
FY 2016 Enacted:	\$68 million

UC supports \$68 million for the Expanded Food and Nutrition Education Program (EFNEP), through which UC delivers hands-on, practical lessons on food, nutrition and healthy lifestyles to needy families. National studies show that for every \$1 invested in this Cooperative Extension program, up to \$10.64 is saved in current and future healthcare costs for “at risk” populations.

Food Safety Outreach Program

UC Request:	\$5 million
FY 2017 Budget Request:	\$5 million
FY 2016 Enacted:	\$5 million

UC supports \$5 million for the NIFA Food Safety Outreach Program to provide technical assistance to help owners and operators of small and mid-sized farms, producers and processors learn about and implement food safety guidelines, including those established by the Food Safety Modernization Act.

SUBCOMMITTEE ON COMMERCE, JUSTICE, SCIENCE AND RELATED AGENCIES

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

NASA Science Mission Directorate

UC Request:	\$5.91 billion
FY 2017 Budget Request:	\$5.6 billion
FY 2016 Enacted:	\$5.59 billion

UC supports \$5.91 billion for the NASA Science Mission Directorate, which funds research on the Earth, our solar system and the universe. UC researchers are highly successful in competing for NASA research awards, further enabling them to be international leaders in astronomy and space science.

NASA Space Technology Programs

UC Request:	\$796 million
FY 2017 Budget Request:	\$827 million
FY 2016 Enacted:	\$686 million

UC supports \$796 million for NASA Space Technology programs, including innovation initiatives such as SBIR and STTR. Under these programs, UC and other academic institutions partner with NASA and other stakeholders to research and rapidly develop new space technologies.

Space Grant College and Fellowship Program

UC Request:	\$40 million
FY 2017 Budget Request:	\$24 million
FY 2016 Enacted:	\$40 million

UC supports \$40 million for the Space Grant College and Fellowship Program, a national network that gives students practical hands-on training in support of NASA's aeronautics and space missions, and inspires them to pursue science, technology, engineering and mathematics (STEM) careers. Headquartered at UC San Diego, the California Space Grant Consortium engages 28 California affiliates, including nine UC campuses, 10 California State University campuses, three NASA centers and other universities.

NATIONAL SCIENCE FOUNDATION (NSF)

UC Request:	\$8 billion
FY 2017 Budget Request:	\$7.96 billion
FY 2016 Enacted:	\$7.46 billion

UC supports \$8 billion for the National Science Foundation for core research programs, cross-cutting initiatives and major research equipment and facilities, including:

- **\$142 million for Understanding the Brain activities** – fundamental science, enabling technologies and workforce development to accelerate brain science;
- **\$176 million for Advanced Manufacturing research**;
- **\$62 million for the interdisciplinary Innovations at the Nexus of Food, Energy and Water Systems (INFEWS) research initiative** to build our fundamental knowledge of food, energy and water systems;
- **\$512 million for clean energy technologies research**;
- **\$106 million for Regional Class Research Vessels**, and **\$67 million for the Large Synoptic Survey Telescope**;
- **\$43 million for fundamental research and engineering work on natural and man-made disasters**, societal response and resilience to them; and,
- **\$16 million for the NSF INCLUDES initiative** – “Inclusion Across the Nation of Communities of Learners that have been Underrepresented for Diversity in Engineering and Science.”

NSF sponsors about 20 percent of all merit-based university research nationally, including engineering and mathematics education, chemistry and materials science, earth and space science, research infrastructure and equipment, and education research. NSF helps to train and educate the next-generation scientific and engineering workforce. In FY 2015, UC was awarded more than 2,100 NSF grants totaling over \$509 million.

UC also supports NSF funding for basic research across all disciplines, including **Geosciences (GEO) research** that addresses critical earth, oceans and atmospheric processes that affect our economic and

national security, and **Social, Behavioral and Economics (SBE) research** that addresses important societal questions using multidisciplinary approaches.

DEPARTMENT OF COMMERCE, NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION (NOAA)

UC supports the highest possible funding levels for extramural NOAA research programs on climate, weather, water and ocean observing, including \$535 million for Office of Oceanic and Atmospheric Research (OAR) programs:

Climate Research, Office of Oceanic and Atmospheric Research (OAR)

UC Request:	\$189.9 million
FY 2017 Budget Request:	\$189.9 million
FY 2016 Enacted:	\$158 million

UC supports \$189.9 million for OAR Climate Research programs, including \$66.25 million for the Competitive Research Program, \$52.7 million for the Regional Climate Data and Information Program, and \$70.9 million for Laboratories and Cooperative Institutes. UC researchers rely on NOAA competitive research funding for the collection of climate, weather and water data, including ocean observing for accurate weather forecasting, which is essential to California agriculture, energy and fisheries, and disaster preparedness, the US Navy and NASA. Historically, UC receives about 10 percent of this funding annually. This account funds the **National Integrated Drought Information System (NIDIS)** and the **Regional Integrated Sciences and Assessments (RISA)** programs, which provide dynamic and accessible drought information for the nation, and support research teams that work with public and private users to build our capacity to prepare for and adapt to environmental variability and change.

Sustained Ocean Observations and Monitoring (OAR)

UC Request:	\$56.6 million
FY 2017 Budget Request:	\$41.8 million
FY 2016 Enacted:	\$41.6 million

UC supports \$56.6 million for OAR Sustained Ocean Observations and Monitoring. UC researchers are critical partners in maintaining baseline ocean observations to support weather and regional climate predictions, fisheries management and ecosystem studies, tide and current monitoring and sea level change.

Integrated Ocean Acidification (OAR)

UC Request:	\$21.8 million
FY 2017 Budget Request:	\$21.8 million
FY 2016 Enacted:	\$10 million

UC supports \$21.8 million for research on integrated ocean acidification (OA) to benefit the long-term health of the oceans and the sustainability of commercial fisheries. California is on the front lines of ocean acidification due to the state's narrow continental shelf and coastal oceanic upwelling, which is threatening marine life, including seabirds and whales, and economically important species such as oysters, crabs, sole, flounder and rockfish. This funding level would support ongoing OA activities, improve experimental facilities and increase the number of OA observing stations to provide better information to affected stakeholders.

National Sea Grant College Program (OAR)

UC Request:	\$80 million
FY 2017 Budget Request:	\$69 million
FY 2016 Enacted:	\$73 million

UC supports \$80 million for the National Sea Grant College Program, a university-based coastal and marine research network, which facilitates knowledge transfer from researchers to the marine industry and the public. Based at the UC San Diego Scripps Institution of Oceanography, California's Sea Grant Program sponsors research and extension activities involving public and private institutions throughout the state.

Regional Integrated Ocean Observing System (IOOS) in the National Ocean Service

UC Request:	\$33.9 million
FY 2017 Budget Request:	\$29.5 million
FY 2016 Enacted:	\$29.5 million

UC supports \$33.9 million for the Regional Integrated Ocean Observing System (IOOS), including \$10 million for marine sensor innovation grants. IOOS involves 17 federal agencies and a national network that provide new tools and forecasts for maritime commerce, fisheries, aquaculture, offshore energy, coastal communities, public health and other users' needs. UC is active in two systems, the Central and Northern California Ocean Observing System (CeNCOOS) and the Southern California Coastal Ocean Observing System (SCCOOS).

SUBCOMMITTEE ON DEFENSE

DEPARTMENT OF DEFENSE (DOD)

Basic Research (6.1)

UC Request:	\$2.5 billion
FY 2017 Budget Request:	\$2.1 billion
FY 2016 Enacted:	\$2.31 billion

UC supports \$2.5 billion for Defense 6.1 Basic Research within a total request of \$13.4 billion for the Defense Science and Technology (6.1-6.3) research and development portfolio. This ratio will help to ensure a balanced research and development pipeline that is vital to our national security.

Conducted by the Army, Navy, Air Force and the Office of the Secretary, Defense Basic (6.1) and Applied (6.2) research programs fund the largest share of DOD-sponsored university research, especially in the physical and computer sciences and engineering. The UC research partnership with DOD spans more than 50 years and has led to a wide range of technological innovations, including new advanced materials, communications and computing, and life-saving medical discoveries and technologies.

Within the Science and Technology portfolio, **UC supports:**

- **\$2.97 billion for the Defense Advanced Research Projects Agency (DARPA)**, which invests in high-risk, high-reward research to develop breakthrough military capabilities;
- **\$506.6 million for Navy Defense Research Science Programs (PE 0601153N)**, and \$134.1 million for **Navy University Research Initiatives, including an increase of \$20 million for the Defense University Research Instrumentation Program (DURIP) (PE 0601103N)**;
- Continued funding for improvements to the **Navy Service Life Extension Program (SLEP) for Auxiliary General Purpose Oceanographic Research (AGOR) 23 class vessels** – to extend their life from 30 to 45 years (\$79.6 million, PE 0602435N); and,
- **\$137 million for DOD advanced manufacturing innovation institutes.**

Defense Basic Research accounts also support education and training for students who will become DOD's future scientific and technological workforce. UC supports the highest possible funding levels for the **National Defense Education Program and the National Defense Science and Engineering Graduate Fellowships program**. UC researchers also provide vital information through the social science research **Minerva Initiative**, which deepens our understanding of the cultural and political conditions in areas of the world of strategic importance to our national security.

SUBCOMMITTEE ON ENERGY AND WATER DEVELOPMENT, AND RELATED AGENCIES

DEPARTMENT OF ENERGY (DOE)

Office of Science

UC Request:	\$5.67 billion
FY 2017 Budget Request:	\$5.67 billion
FY 2016 Enacted:	\$5.35 billion

UC supports \$5.67 billion for the DOE Office of Science (OS), the primary federal agency supporting basic physical sciences research. The OS funds research in many areas of interest for UC researchers: new materials, energy efficiency technologies, advanced energy sources, high performance scientific computing, engineering, and STEM education and fellowship programs. The OS also funds 17 world-class national laboratories, including the Lawrence Berkeley National Laboratory (LBNL), and the largest collection of major scientific user facilities in the world, serving more than 30,000 university researchers, students and industry scientists every year.

Within the total, UC supports **\$33 million to fund five new Energy Frontier Research Centers** – energy research partnerships focused on grand challenges and use-inspired basic research needs; **\$39 million for two OS Energy Innovation Hubs** – research centers that combine basic and applied research with engineering to accelerate scientific discovery on critical energy issues; and, **\$100 million for a competitive grant program for universities**. UC also supports **\$24.3 million for the OS role in the Energy-Water Nexus cross-program collaboration**.

Advanced Research Projects Agency-Energy (ARPA-E)

UC Request:	\$350 million
FY 2017 Budget Request:	\$350 million
FY 2016 Enacted:	\$291 million

UC supports \$350 million for the Advanced Research Projects Agency-Energy (ARPA-E), which advances high-impact technologies that have the potential to radically transform the energy landscape, but are deemed too early in development to attract private-sector investment. Since its start in 2009, ARPA-E has funded hundreds of projects – leading to the creation of new companies that have so far attracted more than \$850 million in follow-on investment from private sources. UC researchers are among the most successful ARPA-E awardees.

Energy Efficiency and Renewable Energy (EERE)

Advanced Manufacturing Office

UC Request:	\$261 million
FY 2017 Budget Request:	\$261 million
FY 2016 Enacted:	\$228 million

UC supports \$261 million for the Advanced Manufacturing Office for a new Clean Energy Manufacturing Innovation Institute for electricity grid applications, as well as continued support for the five existing DOE manufacturing institutes in the National Network of Manufacturing Institutes (NNMI).

UC also supports a broad array of EERE programs to research, develop, demonstrate and deploy clean energy technologies, including the pending **Smart Manufacturing NNMI, the Critical Materials Institute and a plan to establish a new Energy-Water Desalination Hub**. In addition, **UC supports the \$52 million request for Energy-Water Nexus collaboration**, an ongoing effort to integrate DOE program office research and technology investments, as well as work on data modeling, analysis and policy responses that will help address urgent issues related to US energy and water demands.

Researchers at UC campuses and UC-affiliated national laboratories have strong capabilities in clean energy research and technologies.

SUBCOMMITTEE ON HOMELAND SECURITY

DEPARTMENT OF HOMELAND SECURITY (DHS)

Research, Development and Innovation, Science and Technology Directorate

UC Request:	\$454.8 million
FY 2017 Budget Request:	\$436.8 million
FY 2016 Enacted:	\$454.8 million

University Programs, Science and Technology Directorate

UC Request:	\$41.6 million
FY 2017 Budget Request:	\$33 million
FY 2016 Enacted:	\$41.6 million

UC supports \$454.8 million for Research Development and Innovation programs and \$41.6 million for University Programs within the DHS Science and Technology (S&T) Directorate. The S&T Directorate funds basic and applied research to develop advanced technologies and methodologies to protect the nation's communities, ports, coasts, food supplies, borders and infrastructure. UC researchers have successfully competed for research grants on nuclear detection, food system protection, public health assessment and first responder safety. University Programs support collaborative, multi-disciplinary research at universities across the country that contribute to prevention and response to homeland security threats, as well as STEM education programs.

SUBCOMMITTEE ON THE INTERIOR, ENVIRONMENT, AND RELATED AGENCIES

DEPARTMENT OF INTERIOR, U.S. GEOLOGICAL SURVEY (USGS)

USGS Earthquake Hazards Program

UC Request:	\$70.1 million
FY 2017 Budget Request:	\$62.2 million
FY 2016 Enacted:	\$60.5 million

USGS Global Seismographic Network

UC Request:	\$7.32 million
FY 2017 Budget Request:	\$7.32 million
FY 2016 Enacted:	\$6.45 million

UC supports \$70.1 million for the USGS Earthquake Hazards Program (EHP) and \$7.32 million for the Global Seismographic Network (GSN). Within the EHP program, **UC requests \$16.1 million to fully develop and operate the West Coast earthquake early warning system.** Effective earthquake preparedness and monitoring tools are critical to public safety in California and the nation. Researchers at UC and other California universities contribute greatly to the study and analysis of these Earth processes. Within the GSN program, **UC supports the request of \$2.46 million for new seismic sensors.**

USGS Water Resources Research Institutes, Water Resources Research Program

UC Request:	\$9 million
FY 2017 Budget Request:	\$6.5 million
FY 2016 Enacted:	\$6.5 million

UC supports \$9 million for the USGS State Water Resources Research Institute (WRRRI) Program, which is the only federally supported, national network for applied water resource research, education, training and outreach. UC operates the California Institute for Water Resources (CIWR), which supports researchers in developing solutions to costly and difficult water problems in California. With the ongoing drought, CIWR is actively engaged in providing information and resources to California producers, consumers, businesses, and state and local governments. CIWR maintains a [website](#) that is updated daily with drought related information.

NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)

UC Request:	\$155.0 million
FY 2017 Budget Request:	\$149.0 million
FY 2016 Enacted:	\$148.0 million

UC supports \$155 million for the National Endowment for the Humanities (NEH), which would provide critical support to the only federal agency dedicated to promoting and enhancing research, education and public programs in the humanities. UC researchers and scholars compete for NEH funds to strengthen teaching and learning; create new knowledge through extensive, in-depth study; and, preserve and protect cultural and educational treasures. Many NEH-funded projects benefit students and the public by providing access to humanities programming and resources that would otherwise not be available in many communities.

SUBCOMMITTEE ON LABOR, HEALTH AND HUMAN SERVICES, EDUCATION AND RELATED AGENCIES

DEPARTMENT OF EDUCATION (ED)

Pell Grant Discretionary Appropriations

UC Request:	\$22.48 billion
FY 2017 Budget Request:	\$22.48 billion
FY 2016 Enacted:	\$22.48 billion

Pell Grant Maximum Award

UC Request:	\$5,935
FY 2017 Budget Request:	\$5,935
FY 2016 Enacted:	\$5,775

UC supports sufficient federal discretionary appropriations for the Pell Grant Program to provide a “base” award of \$4,860. A \$22.48 million funding level is essential to ensure that—with the mandatory funds available and the scheduled inflationary adjustments—the maximum Pell Grant will be \$5,935 in FY

2017, beginning on July 1, 2017 for the 2017-18 academic year. Through the funding process, UC urges Congress to protect expected funding surpluses in the Pell Grant Program for future years.

More than 80,000 UC undergraduate students currently receive Pell Grants, which is a critical base for the state and institutional aid UC students also receive. Currently, California residents with family incomes of up to \$80,000 receive aid that covers their tuition and nearly two-thirds of UC undergraduates receive grant assistance that also allows them to cover part of the cost of food, housing and other expenses. All UC students are expected to contribute to their own cost of education with loans and earnings from work or savings. Without robust funding for Pell Grants, UC students would have to borrow more, work beyond what is considered manageable or take longer to complete their degrees.

UC supports new funding for Pell to benefit low-income students, which would:

- Restore year-round Pell Grants;
- Provide a “Bonus Pell” to students who accelerate their time-to-degree; and,
- Reward colleges that successfully enroll and graduate low-income students.

Supplemental Educational Opportunity Grant (SEOG)

UC Request:	\$757.0 million
FY 2017 Budget Request:	\$733.1 million
FY 2016 Enacted:	\$733.1 million

Federal Work-Study

UC Request:	\$990.0 million
FY 2017 Budget Request:	\$989.7 million
FY 2016 Enacted:	\$989.7 million

UC supports \$757 million for the Supplemental Educational Opportunity Grant (SEOG) program and \$990 million for the Federal Work-Study (FWS) program. These campus-based programs are essential to the network of federal, state and institutional support that ensures access to a UC education for students from a broad range of income levels. There is significant demonstrated need for strong and sustained funding for these programs.

Federal Perkins Loan Program

UC supports expansion of the Federal Perkins Loan Program to provide new loan volume to more low-income students. However, UC does not support the elimination of current benefits that could result from program expansion. If changes are enacted to the Perkins Loan Program, at a minimum, funds should be appropriated to reimburse campuses for loan cancellations made when borrowers complete service, as required in the law. At the present time, the cumulative reimbursable cancellations owed to UC campuses by the U.S. Department of Education totals more than \$22 million.

Stafford Student Loans

UC supports strong and sustained efforts to keep borrowers' cost of student loans manageable, and to ensure that the federal government can provide borrowers with the essential services they need. UC also supports the restoration of federal loan subsidies for graduate students. Proposals that provide relief to needy students are the basis of the federal investment in federal student aid, and efforts to reform and streamline loan repayment plans and improve program effectiveness will benefit the borrowers and the federal government.

UC supports \$1.6 billion for administration of the federal student aid programs. Sufficient funds are needed for Student Aid Administration to cover expected growth in loan servicing costs, and to bolster ED's ability to take enhanced enforcement actions against high-risk institutions participating in Title IV programs.

TRIO Programs

UC Request:	\$980.0 million
FY 2017 Budget Request:	\$900.0 million
FY 2016 Enacted:	\$900.0 million

GEAR UP

UC Request:	\$343.0 million
FY 2017 Budget Request:	\$322.8 million
FY 2016 Enacted:	\$322.8 million

UC supports \$980 million for TRIO and \$343 million for GEAR UP Programs. These complementary and successful early intervention and academic preparation programs only reach a small fraction of eligible students. Further, TRIO's Student Support Services program is specifically targeted to help low-income, first-generation students with undergraduate retention, transfer and completion success. After facing serious funding cuts over the past several years, funding for these programs should be increased.

Aid for Hispanic-Serving Institutions (HSIs)

UC Request:	\$117.5 million
FY 2017 Budget Request:	\$117.5 million
FY 2016 Enacted:	\$117.5 million

UC supports \$117.5 million in competitive grants to help Hispanic-Serving Institutions (HSIs) expand and enhance successful academic programs. UC has several campuses that serve large percentages of Hispanic students and would be eligible to apply for these funds. UC also supports the Promoting Postbaccalaureate Opportunities for Hispanic Americans program that is designed to help Hispanic Americans succeed in graduate school.

Teacher Preparation and Teacher Quality Programs

UC supports \$2.35 billion for Supporting Effective Instruction State Grants authorized in Title II of the newly reauthorized Elementary and Secondary Education Act (ESEA). This is the same level that

was appropriated in FY 2016, and these funds are needed to support Department of Education efforts to improve teacher preparation programs and recruit and retain high quality teachers.

UC supports the highest possible funding levels for other ED programs that promote teacher quality, spark improvements in computer science instruction, promote preparation of STEM education teachers, support school leader training, enhance professional development and advance other innovations in teaching and learning. UC supports a strong federal investment in programs that improve the quality of teaching in K-12 schools.

Title VI International Education Programs

UC Request:	\$76.2 million
FY 2017 Budget Request:	\$67.3 million
FY 2016 Enacted:	\$72.2 million

UC supports \$76.2 million for Title VI International Education programs. At UC, Title VI supports research and expertise through National Resource Centers, which are important tools in serving the nation's economic, diplomatic, defense and national security needs. Title VI funding has been significantly cut over the past several years, which is why the \$5 million funding cut proposed for FY 2017 is concerning. Further, in an increasingly global economy, additional Title VI funds are needed to ensure a steady pipeline of individuals with global understanding and language proficiency across professions.

Graduate Assistance in the Areas of National Need (GAANN)

UC Request:	\$31.0 million
FY 2017 Budget Request:	\$29.3 million
FY 2016 Enacted:	\$29.3 million

UC supports \$31 million for graduate education in the Department of Education to drive excellence and innovation in business, science, academia and government. The continued erosion of federal graduate fellowship support over the past several years – and the elimination of the Jacob K. Javits Program, which awarded highly competitive fellowships to students pursuing graduate degrees in social sciences, arts and humanities – is damaging to the talented scholars who need this support. A stronger national commitment to graduate education is needed to assure a continued pipeline of skilled workers in all sectors of the economy, as well as qualified professors who will mentor and train the teachers and students of tomorrow.

Department of Education, Institute of Education Sciences (IES)

UC Request:	\$694.0 million
FY 2017 Budget Request:	\$693.8million
FY 2016 Enacted:	\$618 million

UC supports \$694 million for the Institute of Education Sciences (IES) programs. The University is a major innovator in educational research and is continuously working to increase the knowledge base on teacher effectiveness and the science of learning, while working in K-12 schools to improve the quality of

educational practice. UC researchers use competitive funds from IES to address the nation's most pressing education needs, from early childhood to adult education, including increasing the number and quality of math and science teachers, teacher evaluations and the creation of successful professional development models.

DEPARTMENT OF HEALTH AND HUMAN SERVICES, NATIONAL INSTITUTES OF HEALTH (NIH)

National Institutes of Health

UC Request:	\$34.5 billion
FY 2017 Budget Request:	\$33.1 billion (includes \$1.8 billion in mandatory spending)
FY 2016 Enacted:	\$32.1 billion

UC supports \$34.5 billion for the National Institutes of Health, including the highest possible funding levels for the BRAIN Initiative, Precision Medicine and the Cancer Moonshot. The President's FY 2017 Budget Request proposes \$31.3 billion in discretionary budget authority for NIH, less than the FY 2016 funding level of \$32.1 billion. With the rate of the Biomedical Research and Development Price Index (BRDPI) expected to be 2.4 percent in FY 2017, UC's request of \$34.5 billion represents 5 percent real growth over the BRDPI, and emphasizes the need for more significant and sustained growth in the NIH budget. If California's biomedical research industry is to remain a global leader in research innovation and an economic engine helping to grow California's economy, a greater increase in NIH funding is essential.

Adequate and sustained funding for NIH is critical to UC and our partners in California's biomedical research industry. In 2015, California research institutions successfully competed for \$3 billion in NIH grants, approximately \$1.8 billion of which were awarded to researchers at UC. This essential federal investment enables California's biomedical research industry to seek life-saving, breakthrough science and to employ hundreds of thousands of Californians.

BRAIN Initiative: Within the NIH, UC supports the President's commitment to the BRAIN (Brain Research through Advanced Innovative Neurotechnologies) Initiative, a collaboration among academic institutions, the private sector, and NIH, NSF and DARPA. The FY 2017 Budget Request includes an increased investment of \$195 million in NIH funding for the BRAIN Initiative, \$45 million above the FY 2016 level. The BRAIN Initiative will enhance the understanding of complex brain functions and spur the development of new therapeutics to treat disease and disorders affecting millions of Americans. UC is a leader in bringing research and patient care together and was integral to the development of the BRAIN proposal.

Precision Medicine: UC also supports the President's commitment to Precision Medicine, an emerging practice whereby medical practitioners are able to tailor treatments to individual patients based on their unique characteristics. The President's FY 2017 Budget Request includes \$300 million for Precision Medicine efforts at the NIH, representing an increase of \$107 million over the FY 2016 funding level. Specific preventive and therapeutic interventions could revolutionize disease diagnosis, therapy and

clinical decisions. With world-renowned researchers at UC who are already focused on this innovative development, UC strongly supports the efforts of the NIH to invest in Precision Medicine research.

Cancer Moonshot: UC is pleased with the President’s newest initiative, the Cancer Moonshot, and supports the FY 2017 Budget Request of \$680 million for the NIH. With five National Cancer Institute-designated Cancer Centers, UC is at the forefront of conducting research, providing world-class health care and searching for new treatments and cures to one day “eliminate cancer as we know it.”

DEPARTMENT OF HEALTH AND HUMAN SERVICES, HEALTH RESOURCES AND SERVICES ADMINISTRATION (HRSA)

Title VII Health Professions Training

UC Request:	\$280.0 million
FY 2017 Budget Request:	\$231.3 million
FY 2016 Enacted:	\$262.4 million

UC supports \$280 million for the Health Resources and Services Administration (HRSA) Title VII Health Professions Training Programs. The FY 2017 Budget Request proposes \$231.3 million for HRSA’s Title VII health professions program, \$31 million less than what was funded in FY 2016. UC opposes the elimination of funding, as included in the Budget Request, for the Title VII Area Health Education Centers (AHEC) program.

UC operates the largest health sciences and medical training program in the country with more than 12,000 students. The Title VII medical education training and loan programs are critical sources of financial support for many UC students and physician faculty as they are the only federal programs designed to educate providers in interdisciplinary settings to meet the needs of special and underserved populations, as well as increase minority representation in California’s healthcare workforce.

In FY 2015, California received approximately \$21.8 million in Title VII funding, of which UC successfully competed for \$11 million, or approximately 50 percent of all funds awarded to the state. With Title VII funding still not reaching the levels it saw in FY 2011 – \$272 million – and as Congress considers strategies designed to address workforce development, UC supports restoring and increasing Title VII funding to \$280 million and opposes elimination of funding for the Title VII AHEC program.

Title VIII Nursing Workforce Development

UC Request:	\$244.0 million
FY 2017 Budget Request:	\$229.5 million
FY 2016 Enacted:	\$229.5 million

UC supports \$244 million for the Health Resources and Services Administration (HRSA) Title VIII Nursing Workforce Development Programs. The FY 2017 Budget Request provides level funding for Title VIII at its FY 2016 amount, but with a nursing shortage in California expected to exceed 190,000 by

2030, the FY 2017 Budget Request provides limited support to address the nursing crisis in California and the rest of the country, and falls short of the FY 2011 funding level of \$242 million.

HRSA's Nursing Workforce Development Programs (authorized under Title VIII of the Public Health Service Act) provide training for entry-level and advanced degree nurses to improve access to, and quality of, healthcare in underserved areas. These programs provide the largest source of federal funding for nursing education, including loans, scholarships, traineeships and programmatic support to many of the more than 1,500 nursing students at UC. In FY 2015, California received approximately \$9.7 million in Title VIII funding. Of that amount, UC received \$2.7 million, or more than one quarter of the funds awarded to the state.

DEPARTMENT OF HEALTH AND HUMAN SERVICES, CENTERS FOR DISEASE CONTROL (CDC) AND PREVENTION

National Institute for Occupational Safety and Health (NIOSH) Education and Research Centers (ERCs)

UC Request:	\$28.5 million
FY 2017 Budget Request:	\$0
FY 2016 Enacted:	\$28.5 million

UC supports \$28.5 million for the National Institute for Occupational Safety and Health (NIOSH) Education and Research Centers (ERCs). The ERCs provide academic and research training programs in the occupational safety and health disciplines, as well as education and outreach programs to prevent workplace related injury and disease. The Administration's FY 2017 Budget Request does not provide funding for the ERCs, and would eliminate occupational safety and health educational services provided to over 5,000 businesses. UC operates two of the nation's 18 ERCs – the Northern California ERC based at UC San Francisco and UC Berkeley, and the Southern California ERC based at UCLA and UC Irvine.

NIOSH Agriculture, Forestry and Fishing Program (AFF)

UC Request:	\$25 million
FY 2017 Budget Request:	\$0
FY 2016 Enacted:	\$25 million

UC supports \$25 million for the NIOSH Agriculture, Forestry and Fishing Program (AFF) Centers. The AFF Program is the only substantive federal effort designed to prevent workplace injuries in the agriculture sector. The Administration's FY 2017 Budget Request does not propose funding for the AFF Centers. UC operates one of the nine regional NIOSH AFF Centers, the Center for Agricultural Disease and Injury Research, Education, and Prevention located at UC Davis.

HEALTH AND HUMAN SERVICES MANDATORY SPENDING PROPOSALS, CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

The President's FY 2017 Budget Request includes approximately \$478 billion in spending reductions over ten years to Medicare. Approximately \$421 billion of these reductions would come from Medicare providers, including the University of California Health System (UC Health). Though these proposals are not subject to appropriations, UC is concerned that the following provisions in the FY 2017 Budget Request would directly affect UC's clinical operations and medical education programs as they would impede the University's ability to continue to provide patient-focused, state of the art, individualized care to nearly a million patients a year:

- The FY 2017 Budget Request would reduce the reimbursement to hospitals for their "bad debt" from 65 percent to 25 percent over a 3-year period, costing hospital providers nationwide \$33 billion over ten years.
- Payments for indirect graduate medical education would be reduced by 10 percent, or \$17.8 billion, over ten years.
- The Independent Payment Advisory Board (IPAB), created by the Affordable Care Act to reduce Medicare payments, will be given greater capabilities. IPAB is tasked with recommending policies to reduce the Medicare growth rate if the projected Medicare per capita growth rate exceeds a certain target. The FY 2017 Budget Request would lower that target growth rate, triggering IPAB to make policy recommendation at an earlier time. These recommendations would result in \$36.4 billion less in Medicare payments over ten years.
- Reductions to Medicaid Disproportionate Share Hospital (DSH) payments would continue into FY 2026, resulting in a \$6.64 billion decrease in these safety net payments to eligible hospitals, including those in the UC Health system.

SUBCOMMITTEE ON STATE, FOREIGN OPERATIONS, AND RELATED PROGRAMS

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)

Feed the Future Food Security Innovation Labs

UC Request:	\$65 million
FY 2017 Budget Request:	no specific amount for the Innovation Labs
FY 2016 Enacted:	\$50 million (estimated)

Higher Education Solutions Network

UC Request:	\$27.4 million
FY 2017 Budget Request:	\$19.5 million
FY 2016 Enacted:	\$19.5 million

UC supports \$65 million for the Feed the Future Food Security Innovation Labs and \$27.4 million for the Higher Education Solutions Network. These USAID-university partnerships bring unparalleled research capabilities to the U.S. government's global development and food security initiatives. UC leads

six of the 24 Innovation Labs, a network of US colleges and universities that partner with institutions in developing countries to conduct research and training in order to develop agricultural practices and technologies to improve safe and sustainable food production.