

Agendum
Oakland University
Board of Trustees Formal Session
February 7, 2019

**ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF NOVEMBER 16 – DECEMBER 31, 2018**
A Recommendation

1. **Division and Department:** Academic Affairs/Research Office
2. **Introduction:** Oakland University contributes to our national agenda as a contributor to the nation's scientific and technological progress, both through the generation of new knowledge and ideas and the education and training of its students. Grants and contracts awarded to Oakland University play a critical role in the advancement of new research findings, and current research trends gives emphasis to inter-disciplinary, technology-driven, and product-oriented team efforts.

The Board of Trustees (Board) has authorized the President, or his or her designee, to receive and acknowledge grants and contracts to the University, but such grants and contracts must be reported to the Board not less often than quarterly for acceptance on behalf of the University.

At this time, we request that the Board accept the grants and contracts reported on the attached Grants and Contracts Report, Attachment A, for the period of November 16 through December 31, 2018.

3. **Previous Board Action:** The Board accepts grants and contracts to Oakland University on a regular basis at its Formal Sessions.
4. **Budget Implications:** Grants and contracts contribute to the University through the recovery of direct and indirect expense incurred in support of research projects.
5. **Educational Implications:** Grants and contracts enhance the training and education of students.

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6. **Personnel Implications:** Grants and contracts awards may provide salary support for faculty, post-doctoral fellows, undergraduate and graduate students, technicians, lab managers, and other personnel, as required by the funded research project or program.

7. **University Reviews/Approvals:** All grants and contracts are reviewed by the Research Office prior to submission to the Board to ensure compliance with federal and state laws and regulations and University policies and procedures, when applicable, and with assistance from the Office of Legal Affairs when requested.

8. **Recommendation:** RESOLVED, that the Board of Trustees accept grants and contracts to Oakland University identified in the attached Grants and Contracts Report, Attachment A, for the period of November 16 – December 31, 2018.

9. **Attachments:** A. Grants and Contracts Report.

Submitted to the President
on 2/1/, 2019 by

James P. Lentini (A/H)
James P. Lentini, D.M.A.
Senior Vice President for
Academic Affairs and Provost

Recommended on 2/1, 2019
to the Board for approval by

by Ora Hirsch Pescovitz
Ora Hirsch Pescovitz, M.D.
President

Grants and Contracts Report for Period November 16 - December 31, 2018

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
James David Schall Department of Mechanical Engineering	The University of Pennsylvania / Air Force Office of Scientific Research	Adhesion Mechanics of Van der Waals Interfaces: Fundamental Nanoscale Experiments and Simulations. The goal of this project is to combine measurements and simulations to investigate the atomic scale mechanisms governing the adhesion mechanics of atomically-thin van der Waals. An understanding of these properties is needed to develop flexible electronics for Air Force applications.	\$ 35,549	\$ 108,147
Tomoko Wakabayashi Department of Human Development and Child Study	Michigan Department of Education	Early Literacy Essentials for Pre-Kindergarten Training of Trainers Evaluation 2018-19. This project will evaluate a statewide effort to improve literacy instruction in preschools through early literacy training of trainers.	\$ 22,168	\$ 22,168
Chad Martinez Diversity, Equity and Inclusion	Michigan State Police	Raising Awareness of Sexual Assault and Campus Resources. The objectives of this project are to raise awareness of the issue of sexual assault on college campuses, provide greater awareness of resources available to students, and create a greater understanding of complaint processes.	\$ 16,355	\$ 16,355

Grants and Contracts Report for Period November 16 - December 31, 2018

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Hongwei Qu Department of Electrical and Computer Engineering	Molex, LLC	Material Characterization for Electroplated Contacts. The goal of this project is to perform material characterizations and analysis in Molex's electroplating process development of whisker-free metal contact surfaces for press-fit electrical connectors.	\$ 56,348	\$ 56,348
Xiangqun Zeng Department of Chemistry	National Science Foundation	EAGER SitS: Multimodal Gas Sensor for In Situ Methane and Carbon Dioxide Detection in Arctic Soils. The goal of this project is to develop an in situ low cost miniaturized soil sensor to measure the greenhouse gases in tundra soils that can provide spatial and temporal expansion measurements of the dynamic changes of greenhouse gases in soils. The successful completion of this project will enable scientists to understand the potential influence of warming permafrost on the carbon cycle.	\$ 294,536	\$ 294,536
Randal Westrick Department of Biological Sciences	American Heart Association	AHA Summer Undergraduate Fellowship Program. This funding from the American Heart Association Institutional Fellowship Program will provide a ten week summer fellowship experience for five undergraduates per year.	\$ 60,000	\$ 60,000

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Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Lawrence Herriman Smart Zone Business Incubator	Grand Valley State University/ MEDC	Business Accelerator Fund-Client Engagement-Union and Company. The objectives for this project are to make accelerator services available statewide, make services available to high priority companies in regions, share accelerator best practices statewide, build lasting collaborations, and create jobs to catalyze multiplier effect.	\$ 10,000	\$ 10,000
Huirong Fu Department of Computer Science and Engineering	National Science Foundation	REU Site: Undergraduate Computer Research (UnCore) in Cyber Security. The primary objective of this REU Site is to continue to engage ten undergraduate students, particularly women and under represented minorities, in an annual ten-week summer research experience.	\$ 360,000	\$ 360,000
Mohamed Zohdy Department of Electrical and Computer Engineering	Electric Power Research Institute, Inc.	Support for Artificial Intelligence Algorithm for Air Quality Control. The objective of this project is to further expand the work on artificial intelligence and diagnostics of electrostatic precipitators.	\$ 25,000	\$ 25,000
Reginald McCloud Pre-College Programs	Michigan Department of Labor and Economic Growth	GEAR UP. The GEAR UP program is designed to provide academic and social support for students currently in their first year of college. Support will be in the form of tutoring, study tables, mentoring, and improving soft skills.	\$ 17,600	\$ 80,280

Grants and Contracts Report for Period November 16 - December 31, 2018

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Sara Arena Department of Physical Therapy	Michigan Health Endowment Fund	Direct Community Referrals to the HOP-UP-PT. The Homebased Older Persons-Upstreaming Prevention-Physical Therapy Program delivers prevention focused physical therapy in the home of individuals over the age of 65. Community centers serving seniors initiate the program referral for those in their region who may be at risk for a fall or physical decline.	\$ 201,558	\$ 201,558
Fay Hansen Department of Biological Sciences	United States Department of Agriculture / Wayne State University	Evaluating Antibiotic Resistance in Locally Grown Fresh Produce with the Aim to Enhance Urban Food Sustainability. This project aims to collaborate with food science specialists at Wayne State University and the University of West Virginia to determine whether antibiotic resistant bacteria are found in urban-grown produce and to educate the urban gardening community about food safety.	\$ 83,281	\$ 83,281
Edward Rohn Department of Interdisciplinary Health Sciences	University of Michigan	Phenomenology of Chronic Pain After Spinal Cord Injury: Experience, Adaptation and Quality of Life. The goal of this research is qualitative, ethnographic investigation of the complex social component of the life experience of chronic pain following spinal cord injury.	\$ 30,983	\$ 30,983

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Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Florence Dallo Department of Public and Environmental Wellness	National Institutes of Health / University of Michigan	Michigan Center for Contextual Factors in Alzheimer's Disease. The goal of this project is to understand the epidemiology, specifically prevalence of risk factors for mortality of Alzheimer's Disease and related dementias among Arab Americans ages 65 and older.	\$ 30,400	\$ 30,400
Wei Zhang Department of Physics	Department of Energy / Argonne National Laboratory	Microwave Excitation of Nitrogen-Vacancy Centers in Diamond. The objective of this project is to provide service in the excitation of nitrogen-vacancy centers in diamond, using microwave techniques as part of the DoE funded project on nitrogen-vacancy center based magnetometry at Argonne National Laboratory.	\$ 39,999	\$ 39,999
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