

Agendum
Oakland University
Board of Trustees Formal Session
August 12, 2019

ACCEPTANCE OF GRANTS AND CONTRACTS TO OAKLAND UNIVERSITY
FOR THE PERIOD OF MAY 1 – JUNE 30, 2019
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.

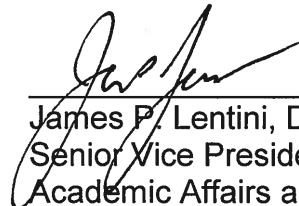
At this time, we request that the Board accept the grants and contracts reported on the attached Grants and Contracts Report, Attachment A, for the period of May 1 – June 30, 2019.

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.

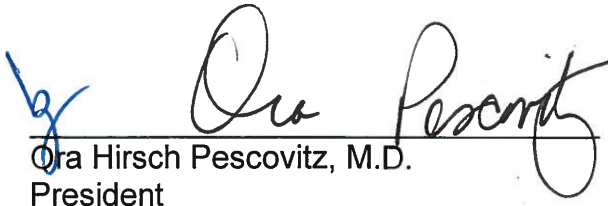
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6. **Personnel Implications:** Grants and contracts awards may provide salary support for faculty, post-doctoral fellows, undergraduate and graduate students, technicians, lab managers, and other personnel, as required by the funded research project 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 May 1 – June 30, 2019.
9. **Attachments:** A. Grants and Contracts Report.

Submitted to the President
on 8/2, 2019 by


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

Recommended on 8/5, 2019
to the Board for approval by


Ora Hirsch Pescovitz, M.D.
President

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Khalid Mahmood Malik Department of Computer Science and Engineering	National Science Foundation	Forensic Examiner: Testbed for Benchmarking Digital Audio Forensic Algorithms. The goal of the proposed research is to establish reliable signatures for the audio acquisition system (e.g., microphone, codec, etc.) from the evidentiary recording; investigate impact of anti-forensic attacks on existing methods; design attack-aware algorithms robust to anti-forensic attacks; and develop research common platform for benchmarking audio forensics algorithms and tools.	\$ 8,000	\$ 207,909
Laurel Stevenson School of Health Sciences	Oakland County Health Department	Wellness Evaluation Project - NPC. The goal of this project is to develop data collection tools and conduct data analysis for the Health and Wellness 4x4 Plan.	\$ 7,000	\$ 7,000
Osamah Rawashdeh Department of Electrical and Computer Engineering	Dura Automotive, LLC	Dura Automotive Driver State Monitoring. This research will investigate the impact that non-driving related tasks such as reading, sleeping, and eating have on drivers in an autonomous vehicle.	\$ 68,141	\$ 68,141
Wing-Yue Louie Department of Electrical and Computer Engineering	Dura Automotive, LLC	Driver State Monitoring System. The goal of this research is the development of a driver state monitoring system as it is a foundational step towards the development of any ADAS for a Level 3 or greater autonomous vehicle.	\$ 64,171	\$ 64,717

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Reginald McCloud Pre-College Programs	State of Michigan	College Day. This 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.	\$ 140,000	\$ 195,212
Martha Escobar Department of Psychology	National Science Foundation	Preparing Interdisciplinary Minority Material Scientists and Engineers of the Future. The HBCU-UP Implementation project will develop, implement, study and evaluate a program for underrepresented minority undergraduate students at Tuskegee University, the largest producer of African American Ph.D.'s in Materials Science and Engineering.	\$ 44,774	\$ 220,294
Randal Westrick Department of Biological Sciences	National Institutes of Health	Thrombosuppressive Mechanisms of Novel Mouse Mutants Discovered through an ENU Mutagenesis. This study will seek to identify, validate and functionally characterize two thrombosis suppressor mutations that we previously identified through an ENU mutagenesis screen.	\$ 375,000	\$ 1,875,000
Roman Dembinski Department of Chemistry	National Science Foundation	MRI: Acquisition of an EPR X-Band Spectrometer. This funding will be used to purchase a variable temperature x-band electron paramagnetic resonance spectrometer.	\$ 289,760	\$ 289,760

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Stephen Kent OU INCubator	Grand Valley State University/ MEDC	Business Accelerator Fund-Client Engagement, Innovative Billboards, LLC. The objective of this project is 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.	\$ 4,000	\$ 4,000
Stephen Kent OU INCubator	Grand Valley State University/ MEDC	Accelerator Development Funds-Discretionary. The objective for this project is 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.	\$ 30,000	\$ 240,000
Laila Guessous Department of Mechanical Engineering	National Science Foundation	REU Site: Automotive and Energy Research and Industrial Mentorship (AERIM) Program at Oakland University. This funding will renew the AERIM program in the Department of Mechanical Engineering, providing undergraduate students the opportunity to participate in automotive and energy related summer research.	\$ 370,304	\$ 370,304

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Lawrence Herriman Macomb OU INCubator	Grand Valley State University/ MEDC	Accelerator Development Funds-Discretionary. The objective for this project is 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.	\$ 30,000	\$ 240,000
Gopalan Srinivasan Department of Physics	National Science Foundation	Non-Linear Magneto-Electric Interactions in Thin Films of Hexagonal Ferrites and Voltage-Tunable High Frequency Ferrite Devices. The primary objective of this research is an understanding of the nature of non-linear ME interactions that give rise to the control of magnetization and magnetic anisotropy field in pure and substituted Ba- and Sr-hexagonal ferrite thin films.	\$ 400,000	\$ 400,000
Anne Hranchook School of Nursing	Health Resources and Services Administration (HRSA)	Nurse Anesthetist Training Program. This funding will provide full time graduate nurse anesthesia students with traineeship support to pay for the cost of tuition, fees and books for the Oakland University-Beaumont Graduate Program of Nurse Anesthesia.	\$ 29,605	\$ 29,605

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Margaret Harris School of Nursing	Health Resources and Services Administration (HRSA)	Nurse Faculty Loan Program Oakland University. The purpose of this funding is to offer financial support to graduate student registered nurses who desire to pursue advanced degrees in nursing with the goal of becoming nurse educators in academic positions following graduation.	\$ 111,111	\$ 111,111
Laurel Stevenson School of Health Sciences	Judson Center, Inc.	Judson Center Evaluation. Oakland University School of Health Sciences Community Health Engagement and Empowerment Research (CHEER) Lab will provide evaluation services to the Judson Center related to their project implementing comprehensive primary care and community health navigation services within their Warren clinical location.	\$ 51,526	\$ 51,526
Daniel Goble School of Health Sciences	Balance Tracking Systems	Normative Data for the Balance Tracking System. This project will gather normative data for the Balance Tracking System modified Clinical Test of Sensory Integration and Balance. The results will be used to calculate percentile-ranking values for the mCTSIB that can be integrated into future versions of the software by the company.	\$ 20,000	\$ 20,000

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Deana Hays School of Nursing	University of Illinois / Health Resources and Services Administration	Midwest Integration of the National HIV Curriculum. The focus of this project is the integration of the National HIV Curriculum (NHC) e-Learning Platform into the education and training curricula of multiple health professions and institutions with an emphasis on medical, nursing, and pharmacy programs, including graduate education/residency programs.	\$ 10,000	\$ 10,000
Adam Avery Department of Chemistry	University of Minnesota / NIH	Drug Discovery for Spinocerebellar Ataxia, Using Novel Fluorescence Technology Targeting Beta-III-Spectrin. This project will address drug discovery for spinocerebellar ataxia, using novel fluorescence technology targeting Beta-III-spectrin.	\$ 126,686	\$ 294,985
Tanya Christ Department of Reading and Language Arts	American Educational Research Association	Culturally Relevant Texts for English Learners with Refugee Backgrounds. This project will address Global Friends Coalition's need for a cohesive curriculum to support adult refugee English Learners (ELs) English language learning by designing a curriculum comprised of 24 lessons aligned with English Language Proficiency Standards for Adult Education using eight culturally relevant picture books.	\$ 2,075	\$ 2,075

Grants and Contracts Report for Period May 1 - June 30, 2019

Principal Investigator	Awarding Agency	Title and Project Abstract	Award Amount	Total Award All Years
Jennifer Lucarelli School of Health Sciences	Michigan Health Endowment Fund	PAL Prescription for Healthy Families. This program addresses social determinants of health (e.g., food insecurity, unstable housing, transportation difficulty, or lack of economic opportunity) by integrating community health navigation, case management, and an incentivized nutrition and physical activity health behavior change program within a youth mentoring program.	\$ 100,000	\$ 100,000
Randal Westrick Department of Biological Sciences	Blood Center of Wisconsin / NIH	Characterization of an Isoform Specific Anticoagulant Function of TFPI-alpha. We have recently identified that the tissue factor pathway inhibitor alpha-Factor V interaction is physiologically relevant. The aim of this grant is to explore this interaction in a glomeruloid body phenotype.	\$ 5,805	\$ 30,816
Ellen Gajewski School of Nursing	State of Michigan	Grant 2019 NCFG Oakland University. The purpose of this funding is to promote safe patient care in all nursing practice environments, advance the safe practice of the nursing profession, and assure a continuous supply of high-quality direct care nurses, nursing faculty, and nursing education programs.	\$ 12,121	\$ 12,121
Total			\$ 2,300,079	\$ 4,844,576