

Lafayette College – Grants List
Active Externally Funded Grants from July 1, 2024 through June 30, 2025

Funding Agency/Organization	Name	Division	Department	Project Title	Amount	Beginning Date	Ending Date
Air Force Office of Scientific Research	Dr. Chun Wai Liew Dr. Robert Kurt	Natural Sciences	Computer Science Biology	There Is More To The Data - Finding The Hidden Pieces of Knowledge	\$ 210,000	15-Sep-23	14-Sep-26
Alan '56 & Wendy Pesky Foundation	Dr. Lisa Gabel	Natural Sciences	Neuroscience	Genes to behavior: Unlocking the code for early detection of reading disorder	\$ 95,350	1-Dec-17	ongoing
American Council of Learned Societies	Dr. Douglas de Toledo Piza	Interdisciplinary	International Affairs	Chinese Migrants Transformed a Border Economy	\$ 60,000	1-Jul-24	30-Jun-25
Bucknell University (subaward - National Science Foundation)	Dr. Sarah Appelhans	Natural Sciences	Psychology	IUSE/PFE: RED Innovation: Enabling Convergence in Undergraduate Engineering through Structural Change	\$ 49,413	1-Jul-23	30-Jun-26
Commonwealth of Pennsylvania, Department of Transportation	Dr. David Mante	Engineering	Civil and Environmental Engineering	Revision and Flexural Capacity Validation of Standard PennDOT Precast Bridge Deck Panel Joint	\$ 308,952	1-Aug-22	31-Jan-25
Copenhagen Business School	Dr. Caleb Gallemore	Interdisciplinary	International Affairs	The paradoxes of climate smart coffee (PACSMAC)	\$ 32,402	4-Jan-21	31-Mar-26
Copenhagen Business School (funded through the Packard Foundation)	Dr. Caleb Gallemore	Interdisciplinary	International Affairs	No Trees, No Future - Unlocking the full potential of conservation finance (CF Future)	\$ 27,567	1-May-22	30-Apr-25
Dreyfus Foundation	Dr. Lindsay Soh	Engineering	Chemical and Biomolecular Engineering	Designing Sustainable Biorefinery Products and Processes using Green Chemistry and Engineering	\$ 75,000	27-Oct-20	1-Dec-26
Dreyfus Foundation	Dr. Michael Bertucci	Natural Sciences	Chemistry	Characterizing and Modulating Bacterial Quorum Sensing Systems with Synthetic Peptides	\$ 75,000	11/6/23	11/5/28

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Lieber Institute, Inc (subaward - National Institute of Mental Health)	Dr. Henry Hallock	Natural Sciences	Neuroscience	Molecular, cellular and physiological correlates of sustained attention in the locus coeruleus to anterior cingulate cortex circuit	\$ 231,785	12-Sep-23	11-Sep-25
National Aeronautics and Space Administration	Dr. Stephanie Douglas	Natural Sciences	Physics	The impact of companions on stellar rotation: a case study in the benchmark Praesepe open cluster	\$ 88,579	24-Feb-21	23-Feb-26
National Institutes of Health - National Institute of General Medical Sciences	Dr. Justin Hines	Natural Sciences	Chemistry	J-Protein Regulation of Yeast Prion Propagation (renewal)	\$ 442,683	1-Aug-21	31-Aug-25
National Institutes of Health - Eunice Kennedy Shriver National Institute of Child Health & Human Development	Dr. Lauren Myers	Natural Sciences	Psychology	Using structured video chat to improve relationships between young children and remote grandparents	\$ 406,410	10-Aug-22	31-Jul-25
National Science Foundation	Dr. Melissa Gordon	Engineering	Chemical and Biomolecular Engineering	CAREER: Gas-regulated Mechanochemical Activation for Bio-inspired Responses in Polymer Networks	\$ 600,000	1-Apr-22	31-Mar-27
National Science Foundation (Collaborative with Purdue University, New York University)	Dr. Lindsay Soh	Engineering	Chemical and Biomolecular Engineering	Collaborative Research: ECO-CBET: Integrated Biochemical and Physicochemical Process to Recover Critical Metals from Municipal Solid Waste in Landfills	\$ 191,339	1-Aug-24	31-Jul-28
National Science Foundation	Dr. Ryan Van Horn	Engineering	Chemical and Biomolecular Engineering	RUI: Role of Crystallinity and Morphology in Degradation and Drug Release of PEO-b-PCL Films	\$ 265,026	1-Jun-24	31-May-27

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National Science Foundation	Dr. Michael Bertucci	Natural Sciences	Chemistry	CAREER: Designing Quorum Sensing Modulators for Lactobacillus plantarum to Probe Interspecies and Host-Microbe Interactions	\$ 496,758	15-Aug-21	31-Jul-26
National Science Foundation	Dr. Melissa Galloway	Natural Sciences	Chemistry	RUI: Chemical phenomena of complex carbonyl-ammonium aqueous aerosol mimics	\$ 327,192	1-Aug-22	31-Jul-26
National Science Foundation	Dr. Christa Kelleher	Engineering	Civil and Environmental Engineering	Collaborative Research: Where does the water go: Improving understanding of streamaquifer-atmosphere interactions around Beaver Dam Analogues	\$ 278,278	1-Jan-21	31-May-25
National Science Foundation (Collaborative with Penn State University)	Dr. Christian Lopez Bencosme	Natural Sciences	Computer Science	Collaborative Research: Adaptable Game-based, Interactive Learning Environments for STEM Education (AGILE STEM)	\$ 149,992	15-Sep-23	31-Aug-26
National Science Foundation (Collaborative with Illinois State University)	Dr. Tamara Carley	Natural Sciences	Geology and Environmental Geosciences	Collaborative Research: What lies beneath: An investigation of subglacial silicic magma systems (Vatnajokull, Iceland)	\$ 238,445	1-Aug-22	31-Jul-26
National Science Foundation (Collaborative with Lehigh University)	Dr. Tamara Carley	Natural Sciences	Geology and Environmental Geosciences	NSF GEO-NERC: Collaborative Proposal: A general model for bubble nucleation and growth in volcanic systems	\$ 157,232	1-Aug-22	31-Jul-26
National Science Foundation (Collaboration with Michigan State University)	Dr. Farhan Abedin	Natural Sciences	Mathematical Sciences	Collaborative Research: Parabolic Monge-Ampère Equations, Computational Optimal Transport, and Geometric Optics	\$ 184,593	15-Jul-23	30-Jun-26

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National Science Foundation	Dr. Jeffrey Liebner	Natural Sciences	Mathematical Sciences	REU Site: Undergraduate Research in Mathematics, Applied Mathematics, and Statistics at Lafayette College	carley \$ 334,620	1-May-22	30-Apr-25
National Science Foundation	Dr. Daniel Turek	Natural Sciences	Mathematical Sciences	Collaborative Research: Enabling Hybrid Methods in the NIMBLE Hierarchical Statistical Modeling Platform	\$ 69,878	15-May-23	30-Jun-25
National Science Foundation	Dr. Ryan Rosario	Engineering	Mechanical Engineering	ERI: Mechanical Characterization of the Interfascicular Matrix of Patellar Tendon in Shear and Transverse Tension	\$ 200,000	1-May-24	30-Apr-26
National Science Foundation	Dr. Brooks Thomas	Natural Sciences	Physics	RUI: Implications of Non-Minimal Dark Sectors	\$ 150,000	1-Aug-23	31-Jul-26
National Science Foundation	Dr. Christa Kelleher	Engineering	Civil and Environmental Engineering	CAREER: Linking hydrological processes and landscape form to the riverine thermal regime in the Mid-Atlantic US	\$ 489,451	3/15/25	2/28/30
NCMA Education & Research Foundation	Dr. Michael McGuire	Engineering	Civil and Environmental Engineering	Response of Geogrid-Reinforced Segmental Retaining Walls Subjected to Post and Beam Barrier Loading	\$ 119,514	1-Oct-23	31-Oct-25
Northeastern University (subaward - National Institute of Neurological Disorders and Stroke)	Dr. Luis Schettino	Natural Sciences	Psychology	Planning and Updating in Frontoparietal Networks for Grasping	\$ 71,080	1-Jan-21	31-Dec-25
Oregon State University (subaward - National Science Foundation)	Dr. David Nice	Natural Sciences	Physics	The NANOGrav Physics Frontiers Center	\$ 385,761	1-Apr-21	31-Mar-26

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Organic Syntheses	Dr. Daniel Griffith	Natural Sciences	Chemistry	Tricarbonyl(tropone)iron as a versatile building block for synthesis of diverse, polycyclic, alkaloid-like scaffolds	\$ 16,000	1-Jun-23	31-Aug-24
Penn State University (subaward - National Aeronautics Space Administration)	Dr. Zoe Boekelheide	Natural Sciences	Physics	Characterization of magnetic particle imaging (MPI) tracers on multiple timescales	\$ 12,000	26-Aug-24	31-Mar-25
Penn State University (subaward - Commonwealth of PA)	Dr. Carlos Tavares	Social Sciences	Anthropology and Sociology	Constables Education and Training Delivery 2025/26	\$ 30,000	1-Jan-25	30-Sep-25
Research Corporation	Dr. Chip Nataro	Natural Sciences	Chemistry	Reaction of palladium dimers with Bis(phosphino) ferrocene ligands with monodentate phosphines	\$ 5,000	1-Aug-22	ongoing
Simons Foundation	Dr. Justin Corvino	Natural Sciences	Mathematical Sciences	AMS-Simons Research Enhancement Grant for Primarily Undergraduate Institution (PUI) Faculty	\$ 9,000	1-Jul-24	30-Jun-27
				Total	\$ 6,875,300		

Key for Title Abbreviations:

ECO-CBET - Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems

ERI - Engineering Research Initiation

IUSE/PFE: RED - Improving Undergraduate STEM Education/Professional Formation of Engineers: Revolutionizing Engineering Departments

LEAPS-MPS - Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences

MCA - Mid-Career Advancement

MRI - Major Research Instrumentation

REU - Research Experiences for Undergraduates (from other institutions)

RUI - Research in Undergraduate Institutions