## TTDGRA Awardees 2023 - 2026

PI	PI Rank	Department	College/ School	Proposal Title
Bing Zhang	Professor	Physics and Astronomy	Science	Multi-Messenger Astrophysics
Samantha John	Assistant Professor	Brain Health	Integrated Health Sciences	Methods and Models of Accelerated Aging and Alzheimer's Disease
H. Jermey Cho	Assistant Professor	Mechanical Engineering	Engineering	Solar-powered water harvesting from dry desert air
Yan Zhou	Assistant Professor	Physics and Astronomy	Science	Development of Quantum InterConnects - A key step towards quantum advantage.
Jenny Kent	Assistant Professor	Physical Therapy	Integrated Health Sciences	Monitoring the terrain underfoot: a means to characterize daily activity and mobility in older adults
Jee Park	Assistant Professor	Civil and Environmental Engineering and Construction	Engineering	Enabling Computers to Read and Interpret Historical Civil Engineering Reports
David W. Hatchett	Professor	Chemistry and Biochemistry	Science	Electrochemical Recovery of Strategic Materials using Ionic Liquid Systems
Allyson Hindle	Associate Professor	Life Sciences	Science	Molecular candidates to unravel hypoxia tolerance and the dive response in seals
Brenna Renn	Assistant Professor	Psychology	Liberal Arts	Developing a Geriatric Mental Health Clinical Research Infrastructure via Community-Academic Partnerships
Elisabeth Hausrath	Professor	Geoscience	Science	Lost minerals: Evidence of past water, pH, and temperature on Mars from minerals that have dissolved away
Helen J. Wing	Professor	Life Sciences	Science	CTP, a protein ligand needed for bacterial virulence

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Erica Marti	Assistant Professor	Civil and Environmental Engineering and Construction	Engineering	Optimization and regeneration potential of eco-friendly biochar for water remediation
Martin R. Schiller	Professor	Life Sciences	Science	Defining the contributions of epistasis to the clinical interpretation of genetics in diagnostics
Elizabeth Ann Stacy	Associate Professor	Life Sciences	Science	Detection and prediction of drought-stress response in economically important plant species using machine learning to mitigate the impacts of drought associated with climate change
Dustin Hines	Assistant Professor	Chemistry and Biochemistry	Science	Electrochemical quantification of reactive oxygen species and neurotransmitters for new applications in clinical research
Eakalak Khan	Professor	Civil and Environmental Engineering and Construction	Engineering	Deepening Understanding of Wastewater Surveillance through Principles and Advances in Environmental Engineering Using SARS-CoV-2 Virus and Antibiotics as Model Markers
Marie-Odile Fortier	Assistant Professor	Civil and Environmental Engineering and Construction	Engineering	Sustainability of Hydrogen as a Water Carrier with Energy Benefits
Christopher Johansen	Assistant Professor	Social and Behavioral Health	Public Health	Increasing Physical Activity Behavior Change among Latinos using the Multi-Theory Model
Szu-Ping Lee	Associate Professor	Physical Therapy	Integrated Health Sciences	Enhancing Motor Function in Individuals with Lower Limb Amputation
Kara Radzak	Associate Professor	Kinesiology and Nutrition Sciences	Integrated Health Sciences	Holistic Health and Fitness for Future Military Leaders
Bradley Marianno	Assistant Professor	Educational Psychology, Leadership, and Higher Education	Education	Effective and Equitable School Boards in the United States Project

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Michael Nussbaum	Professor	Educational Developmy	Education	Exploring the Intersection of Science Discussions and
MICHAEL MUSSDAUTH	Professor	Educational Psychology, Leadership, and Higher	Education	the Ideas and Needs of Emergent Multilingual Learners
		Education		in the Amplify Science Curriculum
Ashkan Salamat	Associate	Physics and Astronomy	Science	The synthesis of metal superhydrides through extreme
Asiikaii Salaillat	Professor	Filysics and Astronomy	Science	temperature/pressure conditions: towards room
	110103301			temperature superconductivity
Sara K Rosenkranz	Associate	Kinesiology and	Integrated Health	A Multi-level, Multi-Behavioral Pilot and Feasibility Trial
	Professor	Nutrition Sciences	Sciences	for Reducing Cardiometabolic Risk in Employees
				Working from Home
Jinyoung Kim	Associate	Nursing	Nursing	Current Sleep Health and the Risk of Alzheimer's
	Professor			Disease in Shift Workers
Jennifer F Byrnes	Assistant	Anthropology	Liberal Arts	Named and Unnamed: A Social Autopsy of Nevada's
	Professor			Missing and Unidentified.
Rachael Robnett	Associate	Psychology	Liberal Arts	Interpersonal Dynamics in STEM Research
	Professor			Apprenticeships
Brach Poston	Associate	Kinesiology and	Integrated Health	Non-Invasive Brain Stimulation of the Cerebellum to
	Professor	Nutrition Sciences	Sciences	Improve Motor Skill in Older Adults
Jin Ouk Choi	Associate	Civil and Environmental	Engineering	A novel opaque building envelope characterizing
	Professor	Engineering and		technologies
		Construction		
Hyunhwa Lee	Associate	Nursing	Nursing	Home-based and Mobile App-guided Dual-Task Exercise
	Professor			for Cognition and Functional Capacity
Beiyu Lin	Assistant	Computer Science	Engineering	Artificial Intelligence based Auditory Scene
	Professor			Identification
Erin Hannon	Associate	Psychology	Liberal Arts	Individual Differences in Affective Sound Processing
	Professor			During Development
Jan "Matt" B.	Associate	Computer Science	Engineering	Utilizing Process-Orientation in Data-Intensive Physics
Pedersen	Professor			Applications

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Jun Kang	Associate Professor	Chemistry and Biochemistry	Science	Development of Novel Cancer Reagents and Strategies to Target SOX2-dependent Cancers
Ann Vuong	Assistant Professor	Epidemiology and Biostatistics	Public Health	Early life exposure to flame retardants and kidney function in adolescence