



**FY 2021 Faculty Pilot/Seed Grants**

<b>Researcher(s)</b>	<b>Department(s)</b>	<b>Project Title</b>
Albrecht, Eric A.	Molecular & Cellular Biology	Zinc Mobilization during Hemorrhagic Snake Venom Stimulation
Allen, Christopher, Bagasra, Anisah, & Doan, Sara	Psychological Science, Technical Communication & Interactive Design	Applying the Extended Parallel Process Model (EPPM) to the Study of COVID-19 & Practice of Protective Health Behaviors: An Experimental Study
Bryansev, Anton	Molecular & Cellular Biology	Creating Gnotobiotic Flies to Address Heavy Metal Toxicity
Edwards, Belinda	Secondary & Middle Grades Education	Using Virtual Simulations to Prepare Mathematics Teachers for Core Teaching Practices
Ergai, Awatef, Smith, Sabine, & Peterson, Shane	Industry & Systems Engineering, Foreign Languages,	Research Initiation: Intentional Intercultural Preparation of Engineering Students
Guindre-Parker, Sarah & Young, Glenn	Ecology, Evolution & Organismal Biology, Mathematics	How Does the Interplay between Costly Reproduction and Unpredictable Environments Shape the Evolution of Cooperative Breeding?
Huang, Yan	Software Engineering & Game Development	Attractive Virtual Reality Powered Course Development for K-12 Cybersecurity & Privacy Education
Kim, Dal Hyung	Mechanical Engineering	Development of a Miniaturized Magnetic Swimming Robot using Soft Matter
Loreto, Giovanni & Soleimani, Arash	Architecture	Non-Rigid Formwork Systems in Concrete Applications
Suo, Kun	Computer Science	Improving Quality-of-Service and Energy Efficiency by Data-Driven Resource Management in Heterogeneous Cloud-Edge Systems
Tekes, Ayse & Utschig, Tris	Mechanical Engineering	Revolutionary Design of 3D-PLD Systems for Developing Online Vibrations and Control Laboratories and in Class Fundamentals of Vibrations Demonstrations
Wilson, Matthew, & Franklin, Mike	Instructional Technology, Software Engineering & Game Development	Using Pedagogical Agent Avatars to Improve Writing Ability & Develop a Writer's Identity within Upper Elementary School Students
Varagona, Lynn & Ballard, Nancy	Nursing	Correlating Hospital Work Environments with Clinical Outcomes, HCAHPS, & Turnover