2019-2020 Request for Proposals

Using Research and Technology to Transform Undergraduate STEM Education

Innovation Grant Awardees

Project Title	Disciplines	Institutions
Enhancing Student Success via Active Adaptive Learning and Process Oriented Guided Inquiry Learning	Engineering	**UC Riverside**, Cal Poly Pomona, Mt. San Antonio College, UC San Diego
Improving Learning Outcomes for All General Chemistry Students through Adaptive Hybrid Courses	Chemistry	**Mt. San Antonio College**, Shasta College, American River College, Fresno City College, Merced College, Hartnell College, UC Davis, Cal State LA, Carnegie Mellon, Stanford
Introducing Research Deconstruction Pedagogy into Gateway Courses to Improve Student Engagement with STEM	Biology & Chemistry	**UCLA**, Fresno State, Glendale Community College, Santa Monica College
On-Ramp to STEM	Math	**Fresno State**, Fresno City College, Clovis Community College, UC Merced, University High School
Rebalancing the Equity Gap in Chemistry Education with Individualized Adaptive Learning	Chemistry	**UC Davis**, CSU San Bernardino, Mendocino College, Academic Senate for California Community Colleges, CSU Chancellor's Office

Professional Development Grant Awardees

Project Title	Disciplines	Institutions
Bay Area Math Collaborative	Math	**CSU East Bay,** Berkeley City College, College of Alameda, Laney College, Merritt College, Ohlone College, San Francisco State University
Building Community and Facilitating Active Learning in Online STEM Courses	Interdisciplinary	**UC Irvine**, Santa Ana College
Closing Equity Gaps in Introductory Biology through Faculty Professional Development in Active Learning Practices	Biology	**UC Berkeley**, Berkeley City College, CSU East Bay

Deeper Math Learning through Metacognitive Conversation	Math	**CSU Chancellor's Office**, LACCD/California Community Colleges' Success Network
The Teaching Experiment Academy	Interdisciplinary	**UC Irvine**, San José State, Cal Poly Pomona

Seed Grant Awardees

Project Title	Disciplines	Institutions
Closing Equity and Access Gaps in Discrete Mathematics	Mathematics	**San Jose State**, San Francisco State, West Valley College, Foothill College, Evergreen College, Hartnell College
Coding Community: Inclusive Space for Programming Tutorials and Adaptive Learning	Computer Science/ Data Science	**CSU Chico**, UC Santa Barbara
Creating New Pathways to Computing	Computer Science/ Data Science	**UC Riverside**, Cal Poly Pomona, Riverside City College
Social Online Tools to Support Collaborative and Inclusive Learning in Biology	Biology	**CSU Stanislaus**, UC Berkeley, Los Medanos College, Diablo Valley College, Las Positas College
STEM Success with Interactive Adaptable Learning Science Videos	Biology	**Butte College**, CSU Chico, UC Davis
Supporting Student Learning about Molecular Structures from Simulations	Chemistry	**UC Riverside**, CSU Northridge