

GRANT BUSTERS

includes professional development workshops for teachers and student assessments.

EDUCATIONAL POLICY STUDIES AND PRACTICE

Medical-School Campus Racial Climate Study

Sponsor: Association of American Medical Colleges
\$26,000

JEFFREY F. MILEM

Assesses the campus racial climate at two medical schools, the University of Arizona and the University of Michigan, through five aspects, psychological-perceptual, behavioral, compositional, organizational, and historical legacies of inclusion or exclusion.

TEACHING, LEARNING, AND SOCIOCULTURAL STUDIES

Asesores Técnicos Pedagógicos

Sponsor: Secretaría de Educación Pública through Georgetown University
\$177,886

NORMA GONZÁLEZ,
RICHARD RUIZ

Forges a partnership between the Center for Intercultural Education and Development of Georgetown University and the Oportunidades program of the government of Mexico. Educational supervisors of indigenous teachers receive training to return to their communities with new skills and knowledge.

Beyond Bridging: Co-education of Preservice and Inservice Elementary Teachers in Science and Mathematics

Sponsor: National Science Foundation
\$2,223,107

BRUCE JOHNSON

Refines and evaluates a new model targeting science and mathematic preservice and inservice teachers of low-income, culturally and linguistically diverse students. Teachers learn effective and sustainable teacher-education practices.

Math and Science Teacher Education/Retention Industry Partnerships (MASTER-IP)

Sponsor: Science Foundation Arizona
\$500,000

BRUCE JOHNSON

Retains secondary science and mathematics teachers in Southern Arizona and includes education courses held each summer to help teachers translate their internship experiences into their classrooms.

National Science Foundation Math-Science Partnership — Culturally Relevant Ecology, Learning Progressions, and Environmental Literacy

Sponsor: National Science Foundation through Colorado State University
\$19,993

KRISTIN GUNCKEL
Designs assessments to probe elementary through high-school students' thinking about water in connected natural and engineered systems. Uses the findings to develop a learning progression framework for student understanding of the water cycle.

Preparing Early Childhood Professionals in

Community-based Settings to Promote Family Literacy and Engage English-language Learners

Sponsor: Helios Education Foundation
\$347,116

ILIANA REYES

Creates a community-based early childhood teacher preparation program, paying particular attention to the literacy needs of English-language learners, their families, and communities. The program will move all teacher-preparation classes into early childhood centers and modify existing courses.

Reasoning Tools for Understanding Water Systems

Sponsor: National Science Foundation through University of Montana
\$157,452

KRISTIN GUNCKEL

Develops instructional tools that middle-school teachers can use to help their students build model-based understandings of how water and substances in water move through connected natural and engineered systems.

Scholarships for Education and Economic Development (SEED) Program

Sponsor: U.S. Agency for International Development through Georgetown University
\$357,022

NORMA GONZÁLEZ,
RICHARD RUIZ

Continues the partnership between the Center for Intercultural Education and Development (CIED) of Georgetown University and the Oportunidades program of the government of Mexico. Indigenous teachers from rural

areas are provided scholarships to study for one year.

Teacher Preparation and Retention Data Collaboration (T-PREP)

Sponsor: Arizona State University
\$17,000

WALTER DOYLE

Improves strategies for assessing the quality of graduates of teacher-education programs at Arizona's three state universities via a collaboration between the three.

Teachers Empowered to Advance Change in Mathematics (TEACH MATH)

Sponsor: National Science Foundation through Iowa State University
\$574,860

ERIN TURNER

Transforms pre K-8 mathematics teacher preparation and provides powerful tools to increase student learning and achievement by the iterative refinement of instructional modules that explicitly develop teacher competencies, children's mathematical thinking, and community and cultural funds of knowledge.

Western Hemisphere Institute

Sponsor: U.S. Department of State through Institute for Training and Development
\$362,000

ALBERTO ARENAS

Provides professional development and training for a cohort of 40 students from Bolivia, Guatemala, Mexico, Paraguay, and Peru. The students attend formal courses, improve their leadership skills, tour Arizona, establish

relationships with UA students, and engage in community service in Arizona.

COLLABORATION GRANTS

Arizona Master Teachers of Mathematics

Sponsor: Noyce Foundation
\$1,802,755

MARTA CIVIL (LEAD PI, DEPARTMENT OF MATHEMATICS), ERIN TURNER, MARCY WOOD

Funds a five-year program providing extensive training to master-teacher fellows. Includes leading professional learning communities, analysis of authentic artifacts of practice, coaching and mentoring strategies, equity in mathematics teaching and learning, organizational structures and systems thinking, and preservice teacher education.

Disabled Veterans Reintegration and Education Project

Sponsor: U.S. Department of Education Office of Post-Secondary Education
\$500,000

SUE KROEGER (LEAD PI,

DISABILITY RESOURCE CENTER), AMOS SALES
Develops, via a congressionally directed grant, a research-based, replicable model for higher education to recommend programs, services, and strategies that contribute to an inclusive campus environment for student veterans, many of whom have disabilities.

Miner Safety and Health Training Program

Sponsor: U.S. Department of Health and Human Services National Institutes of Health
\$1,618,834

MARY POULTON (LEAD PI, COLLEGE OF ENGINEERING), JEFFERY BURGESS, PATRICIA ANDERS
Creates a Western Mining Safety and Health Resource Center as a collaboration between the UA departments of Mining and Geological Engineering in the College of Engineering, Teaching, Learning, and Sociocultural Studies in the UA College of Education, and the Division of Community, Environment, and Policy in the Mel and Enid Zuckerman College of Public Health.

SEMILLAS: Seeding Educational Models that Impact and Leverage Latino Academic Success

Sponsors: Kresge Foundation and the Excelencia in Education "Growing What Works" National Initiative
\$75,000

KEITH HUMPHREY (LEAD PI, STUDENT AFFAIRS),

JEFFREY F. MILEM
Increases retention and grade-point averages among Latina/o college students, promotes seamless transfer for Latina/o students moving from two- to four-year institutions through student and academic support services, and develops and sustains academic programs and practices designed to engage Latina/o students in the learning process for successful completion.