

Title. *Foundations for Success: Developing Effective Mathematics Educators through Cognitively Guided Instruction*

Project Goals and Expected Outcomes. The *Foundations for Success* project will enhance elementary mathematics teacher effectiveness through large-scale implementation of an evidence-based, mathematics teacher professional-development program called Cognitively Guided Instruction (CGI). The project activities are designed to achieve the following goals:

- (1) Provide CGI professional development in mathematics for 2,790 elementary teachers in Florida over the course of five years,
- (2) Increase teachers' knowledge of mathematics and student learning progressions,
- (3) Increase teachers' implementation of evidence-based practices in math instruction,
- (4) Increase students' mathematics achievement with a focus on traditionally underserved and underrepresented students by enhancing CGI to meet their needs.
- (5) Establish structures to support teachers' sustained implementation of high-quality mathematics instruction in Florida beyond the grant award period.

Brief Project Description. Over a five-year period, the *Foundations for Success* project will provide evidence-based professional development in mathematics for 2,790 elementary teachers and 120 elementary school principals. Through these educators, the program will impact more than 142,312 students in urban, suburban, and rural settings during the five-year period and numerous additional students in subsequent years through the continued work of these teachers. Working with an advisory board with extensive expertise and experience supporting equity and excellence in mathematics, the *Foundations for Success* program will integrate evidence-based practices in early mathematics, fractions, and problem solving with promising practices for teaching traditionally underserved and underrepresented students (and their teachers) in mathematics. The program evaluation design will use several complementary methodological approaches, including (1) a mixed-methods evaluation of implementation to determine the extent to which the program is being implemented as intended, (2) a multisite cluster-randomized trial to enable causal inference regarding teacher and student outcomes, and (3) an exploratory study investigating factors in classroom instruction that mediate the impact of the CGI intervention on student achievement.

Partner Organizations. The *Foundations for Success* project forms a partnership between the Florida Center for Research in Science, Technology, Engineering, and Mathematics at Florida State University, the CGI Math Teacher Learning Center, the University of Miami, and several Florida public school districts, including Pinellas County Schools, Leon County Schools, Bay District Schools, the School District of Okaloosa County, and St. Johns County District Schools.

SEED Grant Priorities. The CGI PD program meets the What Works Clearinghouse standards for moderate evidence of effectiveness. The *Foundations for Success* project addresses Absolute Priority 1 (Supporting Effective Teachers) by providing evidence-based professional development in mathematics, the Competitive Preference Priority for promoting mathematics education, and the Invited Priority for micro-credentialing.

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