



FACULTY LEADERSHIP & PROFESSIONAL DEVELOPMENT

For two days in September 2014, the Faculty Leadership and Professional Development Institute (FLPDI) continued to work with new curriculum from Micro-messaging to Reach and Teach Every Student™ from the National Alliance for Partnerships in Equity (NAPE).

Undergraduate faculty from 12 institutions learned to use research-tested pedagogy that improves enrollment, retention, and completion of girls and underrepresented populations in STEM courses. An online follow-up session furthered the discussion of how culture shapes our biases and beliefs about people, often without our realization.



GROWING UP THINKING COMPUTATIONALLY

Growing Up Thinking Computationally (GUTC) provided support in the classroom and after-school clubs for middle school students, and offered professional development for teachers during the 2014–2015 school year. In total, 327 students participated—45% were female, and 64% were from underrepresented groups.

Through activities, GUTC engaged participants in the use of computational models for scientific inquiry and research, and introduced two curricular units: Sustainability & Biofuels, and Geothermal Energy. In each 12-week unit, students investigate a problem, gather data, create a computer model, and run experiments using the model as a virtual test bed.

