

# STEM ADVANCEMENT PROGRAM

The Science, Technology, Engineering, and Math Advancement Program (STEMAP) undergraduate research experience has provided transformative academic opportunities to underrepresented students across New Mexico, contributing to a strengthened and diverse STEM workforce and community in the State. STEMAP gives undergraduate students from non-research universities and two-year colleges the opportunity to spend eight weeks working with faculty at a research university. Often, this is the first formal research experience of their academic careers. Because mentorship is strongly associated with future STEM success of underrepresented minorities and women, an important element of STEMAP was the fostering of mentoring relationships for participating students—with with faculty at research universities, near-peers (undergraduate and graduate students engaged in research teams), and with faculty mentors at their home institutions.

In its entirety, the STEMAP program welcomed 50 undergraduates (92% female or underrepresented minority) from 14 primarily undergraduate institutions (93% minority-serving) across New Mexico in the summers of 2014–2017. Of these students, 15 have transferred to 4-year universities, 20 have graduated or will graduate by May 2018, two are in graduate school, and five are in the workforce. Eight STEMAP students have presented their research at conferences, including the national SACNAS and AISES conferences, five students have recieved poster presentation awards, and one is a co-author on a peer-reviewed paper published in the American Chemical Society journal *Sustainable Chemistry & Engineering*.



STEMAP Summer Cohorts  
**TOP TO BOTTOM:** 2017, 2016, 2015, 2014