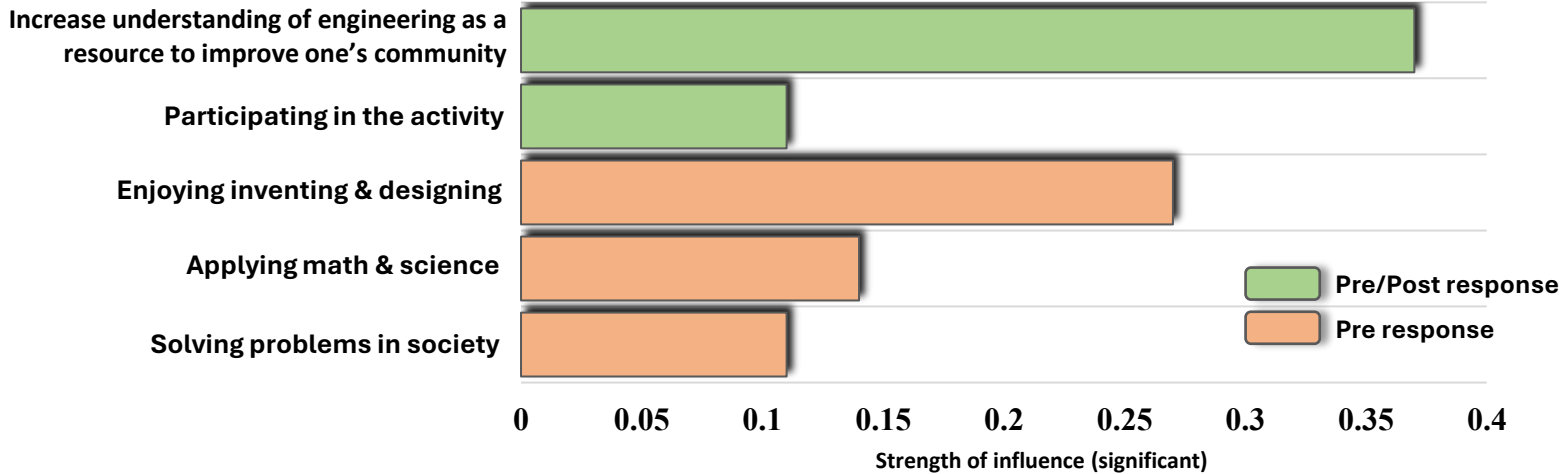


Children of agricultural workers saw themselves as future engineers when they viewed engineering as a way to help their communities



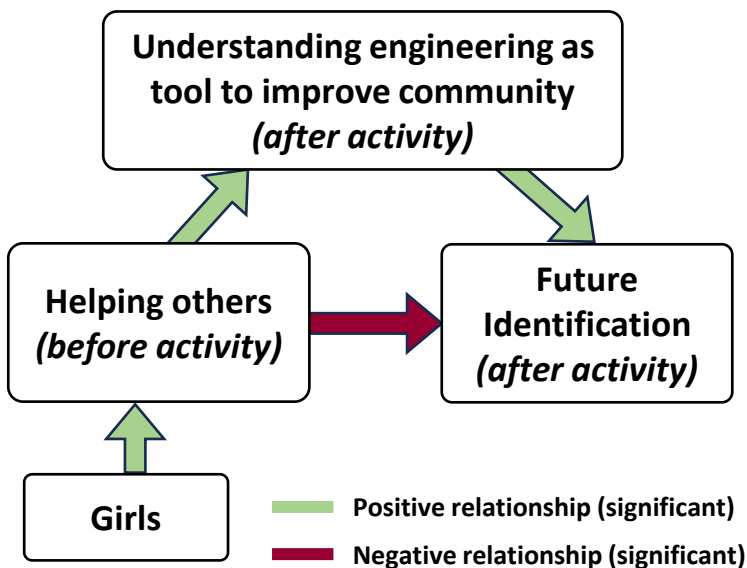
#2225306: BCSE: Empowering Children of Migratory/Seasonal Farmworkers with Gamification & Culturally Responsive Engineering Design Instruction

Factors that support students' perception of themselves as future engineers



Before the activity, Migratory high school students held interest and values that supported a future identification as an engineer

After the activity, Migratory HS students saw themselves more as future engineers because they learned how engineering could be a resource to support their community



Before the activity, girls were more likely to value helping others, & helping others was initially negatively associated with a future engineering identity

After the activity, when they understood that engineering aligned with their value of helping others, that positively supported a future identification as engineers.

58% 42%

98% No prior STEM engagement

Multilevel Model

Path Analysis

2 sites

More on the culturally responsive engineering activity



Activity Shot Clip

