



R4Creating Fast Facts & Impact

R4 Capital Campaign: Exponential Impact At R4Creating, which is our mission to provide opportunities that increase the number of student experiences in Science, Technology, Engineering and Mathematics (STEM) while using an award-winning peer learning model. Interactive experiences are the foundation used to build the STEM Workforce Pipeline for students, mentors, and the educators that support them. All participants are empowered to pursue innovation, problem-solving and leadership with a special emphasis on emerging technologies in order to support the nationwide STEM workforce crisis.

R4Creating was founded as a community based robotics program in 2005 and in 2015 officially attained 501c3 nonprofit status. Always interested in building the STEM workforce pipeline, we have been working in partnerships with organizations to create unique learning opportunities where students build critical skills to develop programs and serve the community. The results shared below offer a small snapshot of the good R4Creating accomplishes:

- In 2019 R4C family outreach programs had nearly 50,000 participants and were recipients of the VEX Google Community Outreach Award.
- Nearly 100 students ages 5 to 18 years, participate in R4 Core Leader program annually,
- The 3D Printing for Good program is led by students and provides hope as well as student built Face Shields to nearly 6,000 medical personnel and those serving the tribal community during the pandemic,
- Through partnerships with tribal organizations, student leaders have the opportunity to participate in immersive experiences mentoring others to help build robotics teams in Lovington and Tohajillee, NM,
- Through a partnership with Be Greater Than Average, online programs provide a platform to teach and influence other students across the country, allowing leaders to teach and connect with peers while building the STEM workforce pipeline and the skills of young learners nationwide including a program to teach 20 Navajo students how to build and use their own 3D printers,
- For five years we have offered the Robotics Leadership Institute with partners Sandia National Laboratories and placed participants into internship experiences and leadership roles,
- 88% of students participating in our program go on to pursue STEM related careers,
- 50% of program participants are young women, an underserved population in STEM,
- Student leaders teach online STEM camps and have taught nearly 100 other students in Florida, North Carolina, Minnesota, Arizona and California during 2020,
- Program participants learn critical STEM skills and important public speaking and leadership skills.

R4Creating (R4C) Capital Campaign Needs for the STEM Workforce Pipeline Strategic Focus:

1. R4C will develop physical spaces to support growth of programs including R4Robotics, Robotics Leadership Academy, Robotics Training Institute, 3D Printing for Good, STEM camps and classes. The space will support continued development of the STEM workforce pipeline strategic focus.
2. R4C will partner with RRPS, APS and colleges with STEM programs to offer student and teacher training and certification through our Technical Maker Space programs for additional revenue sources.
3. R4C will provide opportunities for individuals to contribute to naming opportunities, in addition to grants through a variety of community partnerships including Sandia National Labs, PNM, Albuquerque Funders Collaborative.
4. The organization has a newly elected and fully engaged board and a first -time newly paid Executive Director with plans to leverage current opportunities to deliver a greater impact.
5. The space and programs will employ an additional 10-20 people and create internship and career opportunities for more than 200 participants in person and Covid-safe over these next few years.

R4C is seeking \$400,000 in capital and operational support each year over 5 years or \$2 million total, to renovate and lease a technology based workforce development center like the one we are currently housed in or a new facility of up to 15,000 sq. ft. of flexible space to permanently house its robotics program, STEM entrepreneurial initiatives, and related programs. An additional \$100,000, \$10,000 above the annual \$90,000, will be sought for organizational operating expenses.