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| **INPUTS** | **STRATEGIES** | **OUTPUTS** | **SHORT TERM OUTCOMES** | **MEDIUM TERM OUTCOMES** | **LONG TERM OUTCOMES** |
| SD NASA EPSCOR NASA Space Grant and Matching Funds NASA Mission Directorates, Priorities Challenges and Scientists State and Federal Government Affiliates Industrial Affiliates SD STEM Standards External Evaluator Assessment Tools (e g., on-line surveys, on-site surveys, reports, Longitudinal Tracking, OEPM)SDSGC Management Team | Educate target audiences and general public of SDSGC programs Foster research and interdisciplinary design teams integrating education, research and development.Increase capacity of youth programs to provide authentic STEM experiences that make connections to NASA’s mission & work.Strengthen capacity of educators to include NASA STEM resources & content into curriculum & programsProvide funds to inspire and support youth participation in mission-driven challenges and competitions.Ongoing assessment of program: management, implementation, impact and diversityProvide funds for new and developing interdisciplinary and collaborative research Tribal higher education institutions participate in planning/implementation of programs.Fund fellowships and/or internships to undergraduate and graduate students and 6-12 education teachers | Strong social media presence, brochures, fliersAssessment and survey data, data analysis. Dan Swets Robotics Materials& Kelly Lane Earth & Space GrantsUndergrad, graduate & underrepresented students participate in internships & fellowships Research Experience for Teachers (RET)Project Innovation Grants (PIG)College research and design team productsYouth (K-12) research & design team productsWorkshops, conferences, camps Agendas, lesson plans, onsite activities, participant workDatabase of affiliate researchers interested in participating in SDSGC programsPresentations and personal visits | Research collaborations within and outside the stateUnderrepresented individuals actively participate in statewide research programs.Undergraduate, graduate and underrepresented students experience STEM related careersIncrease in knowledge &/or understanding of the research process, engineering design process, STEM content &/or STEM careersK-12 classroom and informal educators integrate aerospace, earth science and NASA resources into their curriculum.K-12 and underrepresented youth explore educational & career opportunities in aerospace, earth science & supporting STEM disciplines.Multidisciplinary and collaborative research initiatives aligned with NASA’s missionResearchers & K-12 educators develop quality collaborative relationshipsStrengthened relationships among higher education, tribal colleges, federal & state government & industrial affiliates | K-12 classroom and informal educators make aerospace, earth science and NASA resources a cornerstone of their curriculum.Actual research and research methods are integrated into the middle and secondary school curriculumResearch groups and engineering design teams (K-graduate) integrate education, research and development to contribute to NASA’s mission and work.Multidisciplinary and collaborative research that supports NASAs Mission Directorates, mission & Challenges is sustained at affiliate institutions.Participants are employed in STEM related careers that support NASA’s Strategic Goals.Underrepresented individuals actively pursue STEM careers. | Statewide network of scientists, engineers and educators provide a pathway to careers that will contribute to a highly-trained and diverse workforce for South Dakota and NASA, and expand the state’s and nation’s research and development capacity.South Dakota citizens understand and participate in NASA’s aeronautics and space projects by supporting and enhancing science and engineering education, research and public outreach efforts. |