

(6) Logic Model

| Situation | Inputs | Activities | Outputs | Expected Outcomes | | |
|---|--|--|---|---|--|---|
| | | | | Knowledge | Actions | Conditions |
| <p>Increase the number of Hispanic leaders in the field of animal science by developing an appreciation for research. This will:</p> <p>Provide experiential learning opportunities for both undergraduate and graduate students interested in research.</p> <p>Increase the number of students obtaining a Bachelor of Science and Master of Science degree in animal science or an agriculturally related field at both TAMUK and NMSU.</p> <p>Improve student success through engagement using internships and educational tours of USDA, state agency worksites, and private sectors of industry.</p> <p>Provide opportunities to attend professional meetings or leadership development workshops.</p> | <p>USDA Funding</p> <p>Potential to leverage non-federal funds supportive of research activities</p> <p>Faculty time for mentoring and student engagement activities</p> <p>Agency, academia, and industry partners who will provide time and energy for the <u>experiential learning</u> aspect</p> | <p>Identify/<u>recruit</u> undergraduate and graduate students interested in research</p> <p>Design and conduct animal-based research</p> <p>Communicate results through presentations and publications</p> <p>Coach and mentor throughout the program to retain 90% until graduation</p> <ul style="list-style-type: none"> - Research training and advisement - Internship opportunities - Professional career development - Educational tours | <p>Improved <u>retention</u> rates in the College of Agriculture and specifically Animal Science</p> <p>Increased <u>graduation</u> rates of both B.S. and M.S. students</p> <p>A pipeline of students continuing their education between HSIs</p> <p>Human capital that is capable of conducting animal based research that will contribute to <u>global food security</u></p> | <p>Students in the program will:</p> <ul style="list-style-type: none"> - appreciate classroom knowledge when they see how it is applied in research - develop analytical skills - refine critical thinking skills | <p>A greater number of students will remain in the field of animal science or an agriculturally based field of study.</p> <p>A greater number of students will pursue a post-baccalaureate degree.</p> | <p>Employment opportunities will be identified by students</p> <p>Networking by students with professionals (USDA, private industry) will improve job placement into these organizations and support the retention of underrepresented human capital in the field of agriculture.</p> <p>Increased Hispanic leadership in agriculture</p> |
| <p><u>Assumptions:</u> Identifying students who have real potential and diligently working to further develop that potential will improve student success.</p> | | <p><u>External Factors:</u></p> <ul style="list-style-type: none"> - Many of these students come from low-income households; thus financial support to attend college may limit student retention. - Many students are also the first generation in their family to attend college, so the importance of a college education may not have been emphasized during the developmental years; consequently the value of a college education may not be recognized. - K-12 STEM education may not have provided a solid foundation for student success. | | | | |