The goal of this project is to engage Native American students in transdisciplinary study of agriculture, food, and nutrition through two-year research and experiential learning fellowships. To explore the interconnected complexities of these fields, this approach will utilize research laboratories in plant sciences and plant pathology, biochemistry, health and human development, marketing, economics and policy, all with an eye on real-world applications. Students, recruited from Tribal Colleges for 2017-8 and 2018-9 fellowships, will be introduced to these areas of study through an eight-week summer symposium providing them with the basic principles of agriculture, agronomy, nutrition, food systems, health and "wicked problems" through guest lectures, site visits and lab research. Each student's summer research will result in a capstone outreach display in a key food distribution site (eg. FDPIR centers, food banks, grocery stores). The school year fellowship component will include a remote mentoring curriculum with their cohort, continued individual research utilizing PhotoVoice, and a trip to Washington D.C. to meet thought-leaders related to their research areas. Their second summer will commence with a trip to Kansas City to study large-scale food industry, before returning to Montana to focus on individual research. Throughout the fellowship, students will be guided by faculty mentors and field experts, as well as trained peer mentors from MSU. Ultimately, the goal is to inspire students to look beyond the silos of research disciplines, embracing a transdisciplinary academic path that will lead them to address their communities' challenges with exceptional skills and innovative ideas.