

AISES

2020 Programming Priorities





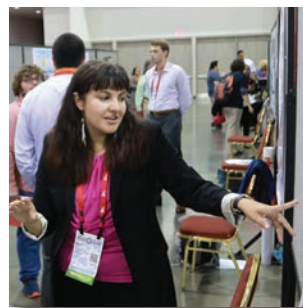
AMERICAN INDIAN SCIENCE
AND ENGINEERING SOCIETY



AISES

2020 Programming Priorities





AISES Mission

Founded in 1977, the American Indian Science and Engineering Society (AISES) is focused on substantially increasing the representation of North America's Indigenous people - American Indians, Alaska Natives, Native Hawaiians, Pacific Islanders, First Nations, Metis, Inuit – in STEM (science, technology, engineering, and math) studies and careers. This vibrant nonprofit currently supports individual student and professional members across the U.S. and Canada in critically needed STEM disciplines. Through chartered college and university chapters, professional chapters, tribal chapters, and affiliated K-12 schools, members benefit from diverse STEM-focused programming that supports careers and promotes student success and workforce development in multiple crucial areas. To learn more about AISES, visit aises.org.

2020 Programming Priorities

AISES' Approach to Native American STEM Workforce Development

- Build Awareness and Retention for Native K-12 Students, Partners and Educators
Start the pathway by providing Native K-12 students, parents, and educators exposure to quality curriculum programs, and opportunities to interest and engage these audiences in STEM.
- Increase Access to and Success in STEM Higher Education
Continue the pathway through higher education by providing financial and academic support and opportunities to Native college students to increase the number of successful Native STEM majors.
- Provide Leadership and Promote Change to Improve Professional Opportunities in STEM
Support the pathway to keep Natives in STEM careers through support of professional Native STEM network and career development resources.
- Identify and Leverage Strategic Partnerships and Conduct Research in STEM
Illuminate the path by identifying the challenges and successes in Native STEM Workforce Development through research, data collection, and partnerships with other key STEM stakeholders.

Annual Events

[Serving high school students, college students, and professionals]

AISES Collegiate Regional Conferences

AISES college and professional chapters hold Regional Conferences in the U.S. and Canada to champion each other and expand their knowledge and skills through a wide variety of workshops and sessions. The regional conferences generate enthusiasm for STEM education and careers via conference features like mini-career fairs, poster presentations, and engineering competitions. Regional conferences are typically held at college campuses hosted by the schools' AISES Chapter. Many professional members participate as mentors and speakers, sharing their expertise and facilitating discussions that might follow an established theme or focus in areas like engineering, environmental science, or crossover between traditional ecological knowledge and western science. The regional conference program illustrates how AISES is actively meeting the critical demand for STEM workforce development. These conferences help individuals to explore new challenges in STEM disciplines and careers, where AISES graduates and professionals are in high demand.



AISES Leadership Summit

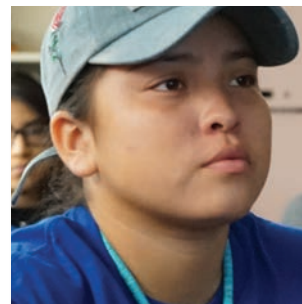
We believe establishing a leadership pipeline is fundamental to developing today's best science, technology, engineering and mathematics (STEM) talent. Students from high school through postdoctoral, as well as emerging and mature professionals, value our Leadership Summit as an opportunity to acquire the skills to be confident leaders. Much smaller than the National Conference, the two-day Summit is held in the spring and is filled with interactive workshops, meetings, sessions, plenaries, and tours – along with built-in time to relax, socialize and have fun. The AISES Leadership Summit delivers on strategies that equip Native STEM students, STEM professionals, and Indigenous leaders with learning, networking, and career development opportunities.

AISES National Conference

The AISES National Conference has been held annually since 1978 and is an unparalleled opportunity to connect companies with over 2,000 Native American high school juniors and seniors, college and graduate students, educators, workforce professionals and our corporate, government, private foundation, nonprofit, and tribal partners for professional development, networking opportunities, students and professional research presentations, workshops, awards, traditional Native American cultural events, and the largest college and career fair in Indian Country. Many companies also host hiring events by conducting onsite interviews. Job seekers are provided interview coaching, and resume development, as well as career planning and other skills necessary to be successful in today's job market. For students considering college or graduate school, resources are provided to assist in financial planning, applying to college or graduate school, as well as information on the many STEM majors and careers available. AISES members and attendees from the U.S. and Canada, and as far away as Alaska and Hawai'i make connections and they find the resources and services to advise and advance their academic studies and careers.

Canadian National Gatherings

The Canadian Indigenous Science and Engineering Society (.calSES) has partnered with AISES to become the official Canadian Region of AISES. The .calSES gives Canadian Indigenous STEM students and professionals an opportunity to gather, connect, and create long-lasting relationships within Canada through .calSES national gatherings, and across the continent at national and regional gatherings.



K-12 Programming

AISES Computing and Engineering Summer (ACES) Camp in Partnership with Intel

AISES will host a summer camp focused on computer science and college and career readiness in CS. The summer camp is for high school students going into their junior and senior years and will highlight careers with Intel and the educational goals necessary to become a CS professional and work for technology companies like Intel. AISES will host the camp on the Arizona State University campus, highlighting opportunities at ASU and the exciting research and technology found at institutions like ASU. The core of the summer camp will focus on a week-long, introductory coding curriculum using Sphero robots and block coding to get students interested in coding while providing a foundation to learn more. The summer camp will also feature a field trip to the Intel campus in Chandler, AZ. Additionally, students will have the opportunity to network with ASU AISES students and ASU faculty, and college mentors will help guide the camp, giving students plenty of opportunities to ask questions and learn about preparing for and succeeding as a CS major in college.

Energy Challenge Competition

The AISES Energy Challenge is an energy-specific science and engineering fair designed to engage and encourage high school and middle school students to participate in science, technology, engineering, and math (STEM) education through a creative, hands on, problem solving, and engineering process in an environment similar to a science fair. Middle and high school students may compete as individuals, or as teams consisting of up to four students. The students/teams ensure a rigorous scoring system and compete against a multitude of other teams. All students/teams must have an adult sponsor. The sponsor can be either a parent, teacher, or mentor. The top two teams are awarded a trip to Washington, D.C. to receive their awards, present their projects at the U.S. Department of Interior, and participate in educational activities during their stay in our nation's capital.

Expanding Computer Science for Native American Girls

In computer science education and degree completion, Native American students and girls are significantly underrepresented among students taking Advanced Placement Computer Science (AP CS) exams and completing computing degrees, which are critical precursors to entering the rapidly growing and high-paying computing occupations. To address educational and economic disparities among Native American communities and youth, AISES and the Women of Color in Computing Collaborative, with funding from Reboot Representation, will build upon existing culturally relevant project-based CS courses with a one year plan to develop robust curricula for a three-course CS sequence for Native American serving schools. This project will increase the number of Native American students participating in AP CS courses through (1) Teacher Professional Development, (2) Curriculum Development, and (3) Engagement and Outreach to Students and Communities. To reduce inequality and improve outcomes for Native American students and families, this intervention will be led by Native American women and will center on the leadership and values of Native American communities who participate in all aspects of the program.

hackAISES

hackAISES is a crash course in coding basics, team building, APIs, and other relevant information designed to introduce students to concepts in computer science. Mentors are available to help students troubleshoot issues and answer questions. At the end of the hackathon, a wrap-up session gives each team a chance to present and demonstrate their accomplishments. hackAISES is a popular event at the annual AISES national conference.

Intel Next Generation of Native Coders Initiative

Intel's Next Generation of Native American Coders Initiative developed the Applied CS Principles and Career Readiness course in 2018, implementing the course at two schools on the Navajo Nation during the 2018-2019 academic year. The course is a Computer Science Career and Technical Education curriculum that engages students and prepares them for computer science degrees and careers through hands on independent projects, technical education integrating Native culture, interactive CS skill-building activities, professional and peer mentorship, and college, career, and leadership development. This AISES-developed course will be implemented at four new high schools with a majority Native population during the 2020-2021 academic year. Students will develop a practical, project-based understanding of computer science and its applications, a more in-depth awareness of the educational and career opportunities in computer science and related fields and cultivate critical skills necessary to be successful in CS higher education and workforce.

National American Indian Science and Engineering Fair

The National American Indian Science and Engineering Fair (NAISEF) is a Society for Science and the Public (SSP) affiliated science fair and as such is part of the larger SSP fair network. The NAISEF differs from other SSP-affiliated fairs in that it is an in-person and virtual science fair which allows access for students who might not otherwise be able to participate. Unlike live fairs, virtual fairs do not require travel as the fair and judging are conducted online and via phone or videoconference. Participants submit their projects as videos and slideshows online. Students from grades 5-12 can participate in the NAISEF. There are two categories for entrants, Senior Division (grades 9-12) and Junior Division (grades 5-8). AISES awards cash prizes to the winners of each division and winners are provided support to travel to and compete in the Regeneron International Science and Engineering Fair that is the world's largest international pre-college science competition held in a major U.S. city.

National Conference STEM Day

Supported by the Boeing Company, this fun, interactive day of activities includes hands on STEM activities for pre-college students and educators. STEM Activity Day features a Marketplace where pre-college students can visit a variety of booths to learn more about AISES pre-college opportunities and gain valuable professional development skills such as resume building, college application tips, AISES opportunities, and more!

Paths to Opportunities Newsletter – Student Edition

Paths to Opportunities is distributed monthly to more than 15,000 AISES members, subscribers, and supporters. This must-read digital newsletter is for pre-college, college, and graduate students. It contains news of student opportunities along with editorial content targeted to the unique student demographic of Indigenous North Americans in STEM disciplines. Each issue has news from the AISES family on timely topics and upcoming events. The student edition includes news of scholarships, fellowships, and internships as well as articles that will help them succeed academically and stay on a path leading to a satisfying career in a STEM-related field.

Research and Poster Presentations and Competitions

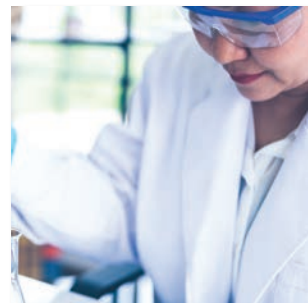
Middle and high school, undergraduate, and graduate students and professionals showcase their STEM research through oral and poster presentation sessions during the AISES national conference. AISES research poster presentations and competitions are the highlight and representation of months of hard work where individuals present their findings to an audience of STEM students and professionals. These presentations give students and professionals the opportunity to share their research and receive valuable feedback on their work. Awards are given for exceptional research presentations.

SPRK-ing Interest in Computer Science

This AISES program combines robotics and computer programming to increase awareness and interest in STEM and Computer Science (STEM+C) among Native American students. The program engages students in hands on STEM+C activities powered by Sphero technology, created by AISES and tailored to Native students. AISES has partnered with the toy company Sphero to bring their educational spherical robot to Native American serving K-12 schools across the country. Sphero is easily integrated into STEM curricula, allowing even the youngest students to learn programming, engage in hands on STEM+C activities, bridge technology and the arts, and enjoy creative discovery with their classmates. The goal of this STEM+C program is to inspire young Native minds to pursue and excel in their STEM and CS education. Additionally, AISES hopes to build the capacity of educators and schools to provide cutting-edge technological STEM+C experiences for its students by providing teacher trainings, lesson plans, and all the equipment necessary to incorporate Sphero technology in the classroom.

STEM College and Career Readiness Programs

AISES is developing a College and Career Readiness (CCR) Guidebook specifically addressing STEM education and careers and the unique needs, values, and workforces of Native students and tribal communities. The CCR guidebook and programming aims to better prepare Native students to attend college and major in STEM, thereby helping address the significant underrepresentation of Native people in STEM studies and careers. The CCR resources will provide students and educators with STEM college and career assessments, an overview of STEM careers, STEM careers pertinent to tribal communities, a college assessment tool, college application guide, scholarships for Native students, resume and interview training, and basic financial literacy. AISES will also develop tools for implementing the CCR Guidebook both in and out of the classroom. AISES' STEM CCR programs are funded by the Northwest Area Foundation, Meyer Memorial Trust with development specifically focused on Oregon tribal communities, and 3M.



College Programming

Advancing Agricultural Science Opportunities for Native Americans (AASONA)

With funding from the Native American Agriculture Fast Track Fund (NAAFTF), AISES developed the AASONA program to support agricultural science scholarships and education for Native Americans in farming and ranching professions. Through this project, AISES will provide comprehensive support to current and potential Native American farmers and ranchers. Thirty college students will participate in a cohort and receive scholarships and research awards as well as travel support to attend AISES national events. The cohort also includes ten professionals in agricultural fields to mentor cohort college students.

ASSIST Project

Funded by the National Science Foundation (NSF) and in partnership with Great Minds in STEM (GMiS); Latinos in Science and Engineering (MAES), National Society of Black Engineers (NSBE), Advancing Chicanos/Hispanics and Native Americans in Science (SACNAS), Society of Hispanic Professional Engineers (SHPE), and the Society of Women Engineers (SWE), AISES is working to support Native Americans who are early-career faculty, graduate students, and postdoctoral professionals in any field of engineering. The overall focus of the project is to target and support those who are traditionally underrepresented in engineering fields.

College Chapters

There are AISES College Chapters across the United States and Canada. The primary objectives of the College Chapters are to enrich the educational, service, and social needs of the chapter's membership. College Chapters emphasize education as a tool that will facilitate personal and professional growth opportunities for students through mentor programs, leadership training, conference participation, and other activities.

College and Career Fair

An important part of every National Conference, the College and Career Fair is the largest event of its kind in Indian Country. A wide variety of organizations, agencies, nonprofits, and colleges and universities participate to share information about the many opportunities available for students and professionals.

College/University Tours

AISES National Conference participants can take part in events like college/university tours and industry tours. Students receive presentations on admissions, financial aid, and curriculum as well as campus tours with current students who talk about student life, classroom resources, and technology. The behind the scenes look at leading colleges/universities generates wonder and inspiration to students who are transitioning from high school in preparation for college.

Full Circle Mentorship

AISES' Full Circle Mentorship program will match college student and professional AISES members in traditional and peer-to-peer academic and career mentoring. The mentorship program is open to college students and professionals at all stages of their career. Mentees will gain practical advice, encouragement, and support, learn from the experiences of others, increase their social and academic confidence, develop skills and strategies for academic and career issues, identify goals and establish a sense of direction, and gain valuable insight into the next stage of their education and career. Mentors will improve communication and interpersonal skills, develop leadership and management qualities, increase their confidence and motivation, engage in a volunteer opportunity valued by employers, enhance one's resume/CV, reinforce and gain recognition for their skills and experience, and feel an improved sense of fulfillment and personal growth.

Intel Growing the Legacy Scholarship Program

In 2015, AISES received a \$1.32 million four-year commitment from the Intel Corporation to support undergraduate and graduate scholarships for Native Americans in computer science fields. The scholarship program supports Native American students annually by providing them with financial support, Intel mentors, paid internships, and Intel jobs upon successful graduation.

Internships

The AISES Summer Internship program provides students with a 10-week applied summer work experience at a business or government agency and an opportunity to explore career options and to develop professional-level skills. Interns gain resume-building skills and develop professional networks. In some cases, students create their own professional internship program within their discipline of study and within the parameters of the host agency. Some of our current and past internship partners include 3M, VGT – an Aristocrat Company, Intel, Oracle Corporation, BMM Testlabs, USDA Forest Service Forest Products Laboratory Internship, ASRC Federal Holding Company, USDA Food Safety and Inspection Service, Bonneville Power Administration, Centers for Disease Control and Prevention, U.S. Bureau of Land Management, U.S. Census, U.S. Environmental Protection Agency, and the U.S. Department of Veteran Affairs.

Lighting the Pathway to Faculty Careers for Natives in STEM Program

In 2014, AISES was awarded over \$1.5 million dollar grant from the National Science Foundation (NSF) to create the “Lighting the Pathway to Faculty Careers for Natives in STEM” program. The goal of the LTP program is to increase the representation of Native Americans in STEM faculty positions at colleges and universities across the country. The program has created an intergenerational community of undergraduates and graduate students, postdoctoral scholars, and junior and senior faculty members. In addition to full circle mentorship, the program strives to provide students with valuable academic and professional support, travel funds, and educational, research, fellowship, and internship opportunities. In 2019, AISES was awarded another five-year grant from the NSF to continue the LTP program increasing the number of scholars by 72 over five years, totaling 172 Native STEM LTP scholars.

Native Financial Cents

With funding from the Wells Fargo Foundation AISES created the “Native Financial Cents: Supporting Financial Capability for Native Americans” program, culturally contextualizing the Wells Fargo Hands on Banking curriculum to build the financial capability of Native youth. AISES developed the Native Financial Cents curriculum for elementary and middle school students and young adults (high school and above) and corresponding training. The curriculum will be deployed by a cohort of AISES college students and professionals—ambassadors—who provide train-the-trainer trainings or direct trainings in their communities and at the colleges/universities they represent.

Scholarships

AISES helps students move forward in their educational journeys by providing a broad range of scholarship opportunities. Scholarships help students acquire skills and training that will help them meet the unique STEM needs of our communities. Our scholarship process is enhanced by our partnership with Indigenous Education Inc. (Cobell Scholarship Fund). This partnership provides a one-stop shop for students to complete information that aligns their goals with scholarships from other potential organizations that streamlines scholarship access. Some of our current and past scholarship programs and sponsors include 3M, Google, Intel, Burlington Northern Santa Fe Foundation, San Manuel Band of Mission Indians, The U.S. Environmental Protection Agency, The Boeing Company, Northrup Grumman, Oracle, Naval Sea Systems Command, Lockheed Martin, Chevron ExxonMobil, and NextEra Energy.

Professional Programming

AISES is dedicated to supporting its professional members in STEM. We support early, mid, and executive professionals in STEM fields through professional development, career opportunities, networking, research support, and opportunities to mentor and support Native students in STEM. AISES support does not end once a student graduates from college and enters a STEM career but rather provides ongoing career and professional development programming to help Native STEM professionals grow and succeed in their chosen career fields. Additionally, AISES offers a multitude of opportunities for professionals to “give back” through mentoring and supporting Native STEM students. Programming for professionals includes mentoring of students, scholarship review, research and science fair judging, serving as speakers and trainers at AISES events, advisory council service, professional development programming, career fair, professional awards, or engage in a growing professional chapter network across the U.S. and Canada.

Advisory Councils

AISES currently has a total of seven advisory councils: Academic Advisory Council, Canadian Indigenous Advisory Council, Corporate Advisory Council, Council of Elders, Government Relations Council, Professional Chapter Council, and Tribal Nations Advisory Council. Each Council plays an important role in advising AISES in its work for their respective sectors; with the Council of Elders advising the board and organization on traditional and cultural matters.

Career Hub

The AISES Career Hub is the premier way to connect with organizations hiring Native STEM professionals. Visitors can search opportunities in academia, government, nonprofit, and other STEM industries. Employers can post their job openings to attract qualified Native STEM professionals through multiple channels and access to a resume database to find the right candidate for the job.

Convening on Computer Science Research Infrastructure for Native-Serving Institutions

Given the underrepresentation of Native students, professionals, and faculty in the field of computer science (CS), AISES believes now is a critical time to focus on strengthening CS research infrastructure of Native-serving institutions to move the needle on this broadening participation challenge. With funding from the National Science Foundation, AISES hosted the Convening on Computer Science Research Infrastructure for Native-Serving Institutions, gathering faculty from a diverse set of Native-serving institutions to understand the issues they face in conducting CS research, securing funding, and engaging Native students in CS research.

Convenings on Computer Science Education for Native Students

AISES has hosted two convenings to understand and address the barriers to CS education for Native students and Native-serving institutions and identify resources and relationships necessary to truly effect change and bring CS to all. The National Science Foundation supported both spring and fall convenings of key stakeholders from K-12 teachers to tribal education directors. AISES is currently working to organize working groups to address critical needs in the development and implementation of CS education for Native students.

Partner Service Awards

Each year, AISES honors a select group of partners who have demonstrated outstanding collaboration and help tell the AISES story. The AISES Partner Service Award winners are selected by the AISES staff in six categories: Corporate Partner, Educator Partner, Foundation Partner, Government Partner, Nonprofit Partner and Tribal Partner.

Paths to Opportunities Newsletter – Professional Edition

The *Paths to Opportunities* newsletter is for active STEM professionals and educators. It includes news of career development, internships, and employment opportunities with outstanding organizations, agencies, universities, and corporations in multiple STEM fields, as well as articles and tips on building a flourishing career.

Professional Awards

Every year AISES recognizes outstanding individual achievement through the Professional Awards Program. Winners are selected by a committee of distinguished leaders from organizations that partner with AISES. That group has the difficult task of giving full consideration to the many excellent nominations that come in from across our membership. The winner of the Professional of the Year Award is selected based on overall leadership and technical achievement, and the remaining awards are made based on achievements in specific categories. New in 2019, the Indigenous Excellence Award acknowledges individuals who have done substantial work to advance programs and opportunities for Indigenous students and professionals in STEM education and careers.

Professional Chapters/Mentorship

The focus of the AISES Professional program is “leadership and change.” AISES is dedicated to supporting its professional members in STEM by providing a network of professional chapters, and an annual professional awards program to celebrate excellence in the field.

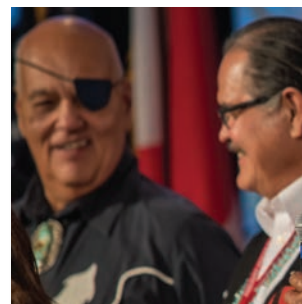
STEM & Business Initiatives

Building upon the Growing Native STEM Businesses in the West (GNSBW) cohort-model program, funded by the Minority Business Development Agency (MBDA), AISES will further develop its programming to increase the number of STEM businesses owned by American Indian, Alaska Native, and/or Native Hawaiian professionals or college students. With funding from Wells Fargo, AISES is now offering mini grants to members of the GNSBW cohort along with continued professional and business development webinars and mentorship. AISES continues to highlight STEM and Business sessions at the AISES National Conference. AISES is also adapting its STEM & Business workshop series developed for the GNSBW program to meet the needs of Southwestern Oklahoma tribal communities as part of the newly awarded ANA SEDS grant.

Strategic Partnerships and Research

50K Coalition – 50,000 Diverse Engineers by 2025

AISES, along with the Society of Women Engineers, National Society of Black Engineers, and the Society of Professional Hispanic Engineers, comprise the Leadership Circle of the 50K Coalition whose mission is to increase the number of diverse engineering degree recipients to 50,000 by 2025. The Coalition received support from the National Science Foundation (NSF) INCLUDES Initiative to bring together universities, industry partners, and other professional societies working toward diversity and inclusion within engineering to join forces and pursue areas of synergy, explore lessons learned, and significantly increase the number of diverse engineering graduates. In addition to the 50K Coalition, AISES has partnered with other minority serving engineering professional societies on another NSF INCLUDES-funded project to increase the diversity of the engineering professoriate by providing professional development to graduate students, postdoctoral fellows, and early-career faculty in all engineering fields.



American Indian/Alaska Native College Affordability and TCU Sustainability

In collaboration with the other national Native scholarship providers, AISES is engaged in a research project designed to better understand two critical areas in relation to American Indian and Alaska (AIAN) Native access to and success in higher education. The project explores college affordability among current and former AIAN college students, graduates, and non-completers attending both Tribal Colleges and Universities (TCU) and non-Tribal Colleges and Universities and TCU sustainability, which includes the development of high-quality credentials at Tribal Colleges and Universities, funding and student access and completion.

Native American Women and Two-Spirit Individuals in Computing Higher Education: A Photo Elicitation Study of Persistence (NAWC2)

With funding from the Women of Color in Computing Collaborative, AISES is working with TERC to conduct an exploratory research study that focuses exclusively on Native women and two-spirit individuals' experiences in computing higher education. The project aims to understand the current national landscape data and trends in the statistics and research for Native American women and two-spirit individuals in computing and STEM education, as well as to identify gaps in the current knowledge base. The co-PIs will use the qualitative methodology of photo elicitation to address gaps in the literature and build upon existing knowledge related to unique barriers facing Native American women and factors that have influenced and supported Native American women and two-spirit individuals' persistence in computing higher education.

Tribal Nations

Tribal Nations Advisory Council

The Tribal Nations Advisory Council (TNAC) of AISES consists of representatives from Tribal Nations in the U.S. and Canada. The primary role of the TNAC is to advise AISES on issues of relevance and importance to Tribal Nations. In addition, the TNAC works to assist AISES in creating opportunities for Tribal Nations and their citizens, and to support the AISES' mission of substantially increasing the representation of Indigenous peoples of North America in STEM.

Cheyenne River Sioux Tribe

In 2016, AISES received a four-year Native Youth and Community Project grant from the Department of Education totaling almost \$700,000 to work with Cheyenne-Eagle Butte (C-EB) Schools and the Cheyenne River Sioux Tribe (CRST) to address barriers to college and career readiness, specifically in the fields of STEM, among American Indian students living in South Dakota. Through this project, AISES is working to increase interest and engagement in STEM subjects among students of all ages, build the capacity of C-EB schools to support students in STEM, and generate CRST parent and community support of and engagement in STEM studies and careers, particularly in CRST youth. Improving STEM education by introducing novel and culturally relevant curriculum and programs and providing C-EB students with opportunities to grow and flourish in new environments is the core mission for this collaborative project. In 2018, AISES was awarded another NYCP grant to expand this program model to the other schools on the CRST reservation.

Eastern Band of Cherokee Indians

With generous funding from the Cherokee Preservation Foundation of the Eastern Band of Cherokee Indians (EBCI), AISES hosted its Leadership Summit in Cherokee, North Carolina, and continues to build upon two years of programming implementing the SPRK-ing Interest in Computer Science program at Cherokee Central Schools (CCS). Most recently, AISES is working to develop curriculum and collaborate with teachers to ensure computer science and 21st century skills are integrated and used at CCS to further the economic development of EBCI by creating a future-ready workforce.

Southwestern Oklahoma Tribes

AISES in partnership with Comanche Nation, Kiowa Tribe, and Wichita and Affiliated Tribes were awarded an Administration of Native Americans Social and Economic Development Strategies (ANA SEDS) project. AISES and the Coalition of Southwestern Oklahoma Tribes Economic Development Partnership project is a multi-tiered Economic Development project focused on Asset Building, Career Pathways, and Entrepreneurship. AISES and its tribal partners will collaborate on the development and implementation of programs in three focus areas—Asset Building, Career Pathways, and Entrepreneurship—to meet the economic development needs of the tribal communities of southwestern Oklahoma. The partnership identified these three economic development programmatic components based on the current community condition including disparities in income, employment, educational attainment, money management, and businesses owned and operated by tribal citizens.



Other Initiatives

Capacity Building for AISES

In 2018, AISES received a two-year \$250,000 grant from the Wells Fargo Foundation to help ensure AISES has the capacity to continue to grow and support long-term sustainability. AISES is using the funding to: 1) address immediate staffing needs, 2) develop a five-year Strategic Plan/Business Plan, 3) create a succession plan, and 4) provide critical business training to support its chief executive officer, management team, staff, and the board of directors.

Comcast/NBC Universal Public Service Announcements

Since 2017, the Comcast Foundation has provided valuable in airtime to broadcast two Public Service Announcements (PSAs) about AISES. The PSAs are designed to convey how, through our work at AISES, intergenerational traditional Native American cultural knowledge is woven together with new ideas to generate innovative technology and promote ideas and people that create a better world for everyone. In 2019, the PSAs ran in multiple markets on multiple channels and was valued at over \$2 million. The PSA videos can be viewed on the AISES Youtube channel along with numerous other videos drawing attention to our work.

Planned Giving Services

In 2018, AISES embarked on a board approved direct mail campaign to increase its operating budget now at over \$7 million annually. In its 40+ year history, AISES has relied on individual donations from the public and it has developed an individual giving program, in addition to implementation in 2021 of major donor and planned giving programs. AISES currently sustains itself through individual giving, grants (corporate, foundation, and federal), and its oldest membership program – the Sequoyah Fellows Lifetime Members Program.

Sequoyah Fellows Lifetime Members Program

The AISES Sequoyah Fellows Lifetime Member program was named in memory of Sequoyah, the great Cherokee innovator who perfected the Cherokee syllabary in 1821. Sequoyah's syllabary built strong literacy skills among the Cherokee people and it had a profound impact on the Cherokee tribe's history that is visible today. Sequoyah Fellows are a growing family of members now at close to 1,500 individuals who are invested in and sustain the AISES organization. Members generate economic growth and support a variety of activities and programs that moves AISES forward and expands members' access to, and understanding of, AISES through its programs and partnerships with organizations and industries that advance STEM education and careers.

Winds of Change Magazine

Distributed across the U.S. and Canada, *Winds of Change* is the premier magazine reaching Indigenous people in STEM. *Winds of Change* supports the AISES mission through timely articles, news of AISES members and chapters, and opportunities for readers — from pre-college through mature professionals — to gain knowledge and experience in their chosen field. Produced five times a year and distributed to AISES members, sponsors, and friends, with an average circulation per print issue of 8,000. All issues are promoted on social media and available digitally in a format optimized for mobile devices. Visit woc.aises.org to access past and current issues.

To learn more about the range of initiatives administered by AISES, visit aises.org.



AMERICAN INDIAN SCIENCE
AND ENGINEERING SOCIETY



AISES



NEW MEXICO OFFICE: 4263 Montgomery Blvd. NE, Ste 200 Albuquerque, NM 87109 • Telephone: 505.765.1052
Colorado Office: 6899 Winchester Circle, Ste 102A, Boulder, CO 80301 • Telephone: 720.552.6123