ANSEP™: Alaska Native Science & Engineering Program™

Founded in 1995

Building a National Model for Excellence in Native American Higher Education Programs
Building a National Model for Excellence in Native American Higher Education Programs

Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring 2004

Alaska Federation of Natives Denali Award 2005

Reginald Jones Founder’s Award 2009

Top 25 Innovations in American Government 2012
### 70+ Partner Organizations: $40+ million

<table>
<thead>
<tr>
<th>Organization</th>
<th>Organization</th>
</tr>
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<tbody>
<tr>
<td>ABR, Inc. - Environmental Research &amp; Services</td>
<td>Cook Inlet Tribal Council (CITC)</td>
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<tr>
<td>Alaska Department of Fish &amp; Game (ADF&amp;G)</td>
<td>ConocoPhillips</td>
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<tr>
<td>Alaska Federation of Natives (AFN)</td>
<td>Denali Commission</td>
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<td>Alaska Interstate Construction LLC (AIC)</td>
<td>Doyon Drilling, Inc.</td>
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<td>Alaska Native Tribal Health Consortium</td>
<td>ExxonMobil</td>
</tr>
<tr>
<td>Alfred P. Sloan Foundation</td>
<td>First Alaskans Institute</td>
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<td>Ayneska Pipeline Service Company</td>
<td>Ford Foundation</td>
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<td>Anchorage Water &amp; Wastewater Utility</td>
<td>Hawk Consultants LLC</td>
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<td>Anonymous</td>
<td>HDR, Inc.</td>
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<td>ANSEP Alumni Scholarship Association</td>
<td>INBRE: Idea Networks of Biomedical</td>
</tr>
<tr>
<td>ASRC Energy Services (AES)</td>
<td>National Institute of Health</td>
</tr>
<tr>
<td>Arctic-Yukon Kuskokwim Sustainable Salmon</td>
<td>JL Properties, Inc.</td>
</tr>
<tr>
<td>Initiative (AYK SSI)</td>
<td>Jonathan Rubini &amp; Suzanne La Pierre</td>
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<td>AT&amp;T</td>
<td>Kapiolani Community College (KCC)</td>
</tr>
<tr>
<td>BP Exploration (Alaska), Inc.</td>
<td>Kuskokwim Community College</td>
</tr>
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<td>Bristol Bay Native Association (BBNA)</td>
<td>Kuskokwim Native Association (KNA)</td>
</tr>
<tr>
<td>Bristol Environmental &amp; Engineering Services</td>
<td>Leonard &amp; Tannie Hyde</td>
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<tr>
<td>Corporation</td>
<td>Microsoft</td>
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<td>Bureau of Land Management (BLM)</td>
<td>NANA Development</td>
</tr>
<tr>
<td>CH2M Hill</td>
<td>NANA /Dowl HKM</td>
</tr>
<tr>
<td>Chevron</td>
<td>NANA Management Services (NMS)</td>
</tr>
<tr>
<td>Cook Inlet Region Incorporated (CIRI)</td>
<td>Building a National Model for Excellence in Native American Higher Education Programs</td>
</tr>
</tbody>
</table>
70+ Partner Organizations: $40+ million

NANA Worley Parsons
NACME, Inc.
National Fish & Wildlife Foundation
National Science Foundation (NSF)
National Institute of Health (CAHDRE)
NOAA
Northern Dynasty
NSEDC
OAK Foundation
Peak Oilfield Services Co.
The Pebble Partnership
PND Engineers, Inc.
Rasmuson Foundation
SAIC
Schlumberger
Shell
Siemens Building Technologies
Summit Consulting Services, Inc.

Udelhoven Oilfield System Services
U.S. Army Corps of Engineers (ERDC-CRREL)
U.S. Bureau of Land Management
U.S. Department of Commerce -EDA
U.S. Department of Education
U.S. Fish & Wildlife Service
U.S. Forest Service
University of Alaska
University of Alaska Anchorage
University of Alaska Fairbanks
University of Arizona
University of Colorado Boulder
University of Hawai'i Manoa
USKH
Verizon
Wells Fargo
Yukon Kuskokwim Health Consortium

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP: 6th grade through the PhD

Pre-College
• Middle School Academy
• Computer Assembly
• Acceleration Academy
Summer Bridge
University Success
Graduate Success

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP: 6th grade through the PhD
ANSEEP Building

A place of safety and belonging for our students on campus

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Middle School Academy

Excitement and empowerment about careers in engineering & science

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Middle School Academy

Excitement and empowerment about careers in engineering & science
Building a National Model for Excellence in Native American Higher Education Programs
ANSEP High School Computer Assembly

Excitement and empowerment about careers in engineering & science

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Acceleration Academy

Advanced Academics and Career Exploration

Starting summer after 8th grade

Up to 6 weeks on campus

Courses for university credit
• chemistry, physics, trigonometry
• calculus 1, 2, 3
• differential equations
• Introduction to Engineering
• Introduction to Biology
• Introduction to Geology

Hands on enrichment activities
Building a National Model for Excellence in Native American Higher Education Programs

ANSEP Acceleration Academy
Advanced Academics and Career Exploration
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Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Acceleration Academy
Advanced Academics and Career Exploration
ANSEP Acceleration Academy
Advanced Academics and Career Exploration

91% of students advance 1 level or more in math or science each summer.

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Summer Bridge
Building a Strong Foundation for University and Professional Achievement

- 10 weeks
- Advanced math class
- Professional internship
ANSEP Summer Bridge
Building a Strong Foundation for University and Professional Achievement

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Summer Bridge

Building a Strong Foundation for University and Professional Achievement

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP Summer Bridge
Building a Strong Foundation for University and Professional Achievement

90% of students successfully transition to science or engineering BS degree programs

Participants 1998 - 2013

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP University Success
Study Groups

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP University Success
Weekly Meetings: *Meaningful Connections with Each Other*
ANSEP University Success
Internships: Career Vision & Money for School

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP University Success

Percentage of ANSEP students who have graduated or are currently enrolled

83%
Building a National Model for Excellence in Native American Higher Education Programs
Cumulative UAA/UAF Native Science & Engineering Degrees
ANSEP Middle School Academy

Building a Sustainable Future
Expanding Our Reach

Building a National Model for Excellence in Native American Higher Education Programs

[Graph showing enrollment growth from 2010 to 2025 for 6th, 7th, and 8th grades, with a steady increase in numbers for each grade level through the years.]
ANSEP Acceleration Academy
Building a Sustainable Future
Expanding Our Reach

Building a National Model for Excellence in Native American Higher Education Programs
ANSEP
Building a Sustainable Future
ANSEP Academy Building
Building a National Model for Excellence in Native American Higher Education Programs
Herb Schroeder, PhD
ANSEP
Alaska Native Professionals Managing Alaska’s Resources

Building a National Model for Excellence in Native American Higher Education Programs