Strategic Vision

Research and Scholarship
## I. End Result: UAF research and scholarship addresses the sustainability of Alaskan communities.

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Targets (Year)</th>
<th>Strategies to Achieve End Result</th>
<th>Unit(s) Responsible</th>
<th>Budget Impact</th>
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| **Objective A:** To conduct basic and applied research leading to the identification and remediation of health challenges and disparities among Alaskans. | • Funding for the Life Sciences Facility. (2011)  
  • Funding for new faculty positions for IDeA Network of Biomedical Research Excellence (2011).  
  • Continuation of the UAF neuroscience program through a new NIH Center of Biomedical Research Excellence award and/or renewal of the current NIH Specialized Neuroscience Research Program award (2012). | **Strategy A1:** Continue and expand biomedical and behavioral research.  
Vice Chancellor for Research (incentives and coordination)  
Institute of Arctic Biology  
College of Natural Science and Mathematics  
Center for Alaska Native Health Research | >$500,000 operating funds and up to $120M capital funding, plus federal grants and contracts | Funding to begin construction of the Life Sciences Facility is included in the FY11 capital request.  
Two INBRE faculty positions are included in the FY11 operating budget request. |

| Objective B: To conduct and lead research efforts on environmental and social change. | • Increase the number of faculty in leadership positions by 50% (2015).  
  • Increase awards to support research on environmental and social change by 5% per annum (beginning 2012).  
  • Sustain programs such as the Alaska Experimental Program to Stimulate Competitive Research program and make them more effective (2011). | **Strategy B1:** Increase number of UAF faculty in national/international research leadership positions, such as the National Science Board, Polar Research Board, SEARCH and IPA positions at relevant funding agencies.  
Vice Chancellor for Research  
Research Units  
Schools and Colleges | None | Ongoing |

| **Strategy B2:** Increase competitive research funding in these areas.  
Research Units  
Schools and Colleges | Investments of additional startup funds for faculty would be helpful | Ongoing |

| **Strategy B3:** Benefit fully from federal capacity building programs to link UAF research with Alaska stakeholder needs.  
Vice Chancellor for Research | $400,000; all new faculty positions committed by UAF need to be filled. | Ongoing |
## I. End Result: UAF research and scholarship addresses the sustainability of Alaskan communities.

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| **Objective C:** To foster collaborative research concerning Alaska Native communities, languages and cultures. |  • Secure base Indigenous Studies program funding from the state (2011).  
• Secure additional philanthropic support for student fellowships and scholarships (2017).  
• Recruit at least 20 students into the program (2012). | **Strategy C1:** Support the initial growth and development of the Indigenous Studies Ph.D. Program. | Provost’s Office Graduate School College of Liberal Arts School of Education College of Rural and Community Development Development | $350,000 | $200,000 is included in the FY11 operating budget request. |
| **Objective D:** To conduct research on natural hazards to enable prevention, mitigation or warning. |  • Increase research funding and publication in internationally prominent journals by 10% (2012).  
• Increase competitive awards in volcanology, earthquake seismology, tsunami modeling by 10% (2012).  
• Secure state or (airline) industry support to guarantee that essential volcano monitoring will continue (2012). | **Strategy D1:** Continue and expand internationally prominent volcanology research programs. | Geophysical Institute Arctic Region Supercomputing Center | $500,000 per year in base funding plus external funding | The Alaska Volcano Observatory had a critical role in assessing and predicting the eruptions of Mt. Redoubt in 2009. UAF continues to seek a broader base of industry, state and federal support for this research and monitoring. |
|  |  | **Strategy D2:** Increase public awareness of the benefits of hazard assessment, prediction, monitoring and mitigation. | Vice Chancellor for Research Marketing and Communications Cooperative Extension Service Marine Advisory Program | The requested increment for MAP is $650,000 | The MAP funding increment in the FY11 budget request is partly intended to address this need, especially relative to marine hazards such as storms, coastal erosion and tsunamis. |
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<td><strong>Objective E:</strong> To develop new energy production and conservation technologies.</td>
<td>• Base program funding from the state (2011).&lt;br&gt;• Two additional competitive energy awards each year through National Science Foundation and Department of Energy.&lt;br&gt;• One additional grant or contract annually through Alaska Energy Authority and/or the Denali Commission for specific energy-related tasks, particularly in the realm of sustainable energy research and development (2011).</td>
<td><strong>Strategy E1:</strong> Establish the Alaska Center for Energy and Power (ACEP) in order to expand energy research programs, including both fossil fuel and alternative energy sources and work more effectively with the stakeholder communities.</td>
<td>College of Engineering and Mines&lt;br&gt;Institute of Northern Engineering&lt;br&gt;ACEP</td>
<td>$500,000 base funding for Alaska Center for Energy and Power&lt;br&gt;External research funding</td>
<td>In October 2009, $4.6 million of American Recovery and Reinvestment Act funding was awarded to UAF to test techniques and assess the geothermal resource at Pilgrim Hot Springs.</td>
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<td><strong>Strategy E2:</strong> Develop partnerships with industry, government and nongovernmental organizations including Alaska Native organizations.</td>
<td>College of Engineering and Mines&lt;br&gt;Institute of Northern Engineering&lt;br&gt;ACEP&lt;br&gt;School of Natural Resources and Agricultural Sciences</td>
<td>Included in ACEP base funding</td>
<td>In May 2009, ACEP and Tanana Chiefs Conference formed a new partnership aimed at finding energy solutions for the 42 rural communities in the TCC region. ACEP hopes to expand the partnership model to other regions.</td>
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### II. End Result: Research, scholarship, and creative activities are supported across all academic disciplines.

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| **Objective A:** To promote active partnerships between students and faculty in research, scholarly and creative activities at all levels. | • Graduate student and postdoc stipends meet market levels for peer research universities (2012).  
• Increase the number of undergraduates engaged in research by 10% per year to double the number between 2010 and 2017.  
• Alaska Summer Research Academy serves 300 students/year (2017). | **Strategy A1:** Provide competitive stipends for graduate assistantships and postdoctoral fellowships  
**Strategy A2:** Actively promote undergraduate research opportunities.  
**Strategy A3:** Expand ASRA to introduce pre-college students to research and creative activity.  
**Strategy A4:** Provide ongoing undergraduate research opportunities with industry partners. | Graduate School  
UAF HR and SW Labor and Employee Relations  
Provost’s Office  
Student and Enrollment Services  
Schools and Colleges  
Vice Chancellor for Research  
Research Units | $500,000 plus federal grants and contracts  
Reallocation of effort | From 2007-2009, internal reallocations increased graduate student research and teaching assistantships to near the national market level.  
Reallocation of effort  
$150,000  
Reallocation of effort | Ongoing |