

**State of Alaska  
FY2007 Governor's Operating Budget**

**University of Alaska  
Fairbanks Organized Research  
Component Budget Summary**

**Component: Fairbanks Organized Research**

**Contribution to Department's Mission**

The University of Alaska Fairbanks, as the nation's northernmost Land, Sea, and Space Grant university and international research center, advances and disseminates knowledge through creative teaching, research, and public service with an emphasis on Alaska, the North, and their diverse peoples.

University of Alaska Fairbanks Mission Statement  
 Board of Regents' Policy 10.01.03  
 Adopted 4/21/00

The University of Alaska Fairbanks is Alaska's research university and America's arctic university. As a major center for research and scholarship, UAF is committed to the mutual enhancement of teaching, research, creative activity and public service. Scholarship produces new knowledge and instills vigor into teaching, which, in turn, stimulates inquiry and the quest for further answers to the unknown. The university seeks to use its particular location in the North as a natural laboratory for the study of questions and issues whose solutions are not only applicable to Alaska problems but to a broader understanding of the global community. As a key member of a network of campuses within the state university system, UAF supports a vigorous program of basic and applied research resulting in a well-earned national and international reputation. Particular recognition has been achieved in space physics, remote sensing, marine science, high-latitude biology, the environmental sciences, engineering and geophysics. The university offers programs in the definition, exploration, development and management of Alaska's renewable and non-renewable resources. It is the state's center for study of Alaska Native cultures and languages.

**Core Services**

UAF is among the top 100 National Science Foundation-funded research institutions in the United States. Fairbanks is the research campus for the University of Alaska system; through the activities of its component research institutes, centers, laboratories and related research facilities it makes significant contributions to basic and applied science and engineering on state, national and international levels. Extramural and state support funded \$110 million in total revenue as a result of research during the past fiscal year. That research assisted natural resource managers, allowed expansion of cultural knowledge and contributed to developing safer, more economical construction practice guidelines.

FY2007 Resources Allocated to Achieve Results		
<b>FY2007 Component Budget: \$151,105,200</b>	<b>Personnel:</b>	
	Full time	507
	Part time	23
	<b>Total</b>	530

**Key Component Challenges**

UAF must continue to build upon its research strengths to function as a center of excellence in northern research and related graduate and undergraduate education. Emphasis on interdisciplinary research and scholarship that brings the various UAF departments and research institutes closer together will position the university to respond to emerging state, national and international research opportunities. To secure leadership in arctic research, UAF will undertake the following strategies:

- A. Continue development of UAF as a center of excellence, taking full advantage of its geographic location by specializing in arctic and subarctic research.

1. Develop basic and applied research programs and projects and emphasize interdisciplinary scholarship that provides an understanding of the problems and issues of northern regions and their populations.
  2. Develop research collaboration between appropriate urban and rural UA campuses and units, e.g. Experimental Program to Stimulate Competitive Research, Centers of Biomedical Research Excellence (which at UAF is called the Center for Alaska Native Health Research), Biomedical Research Infrastructure Network, Title III, Alaska Natives into Psychology and the Geographic Information Network of Alaska.
  3. Play a leadership role in planning and implementing the 2007-2008 International Polar Year, using this opportunity to showcase UAF's polar research capacity and enhance its international reputation in arctic studies.
  4. Collaborate with Alaska Natives and northern nations to develop research programs specific to northern issues.
  5. Improve and maintain the infrastructure for research at UAF to include state-of-the-art facilities, equipment, instrumentation, computing resources and computer networking.
- B. Increase the capacity to train graduate and undergraduate students in disciplines related to northern issues and educate them to play leading roles in tomorrow's society.
1. Strengthen and selectively expand graduate programs related to research strengths and northern issues, particularly at the Ph.D. level.
  2. Increase resources for graduate fellowship programs to attract more students and provide for additional academic disciplines and interdisciplinary study.
  3. Increase resources for undergraduate research programs and summer internships to build on recent successes.
- C. Continue to use and expand the university's pre-eminence in arctic research to enhance the undergraduate experience.

These strategies must be achieved at a time when the latest congressional plans for the federal FY06 budget leave most non-defense research and development programs with flat or declining budgets after adjusting for inflation; next year, even biomedical and homeland security research could decline from recent historical highs. As these projections were made in August 2005, they do not take into account the huge expenditures required to recover from the catastrophic events in FY05. Clearly, there will be a strong need to improve funding opportunities from within the state—both from the general fund and through substantially stronger collaborations with state agencies—if these challenges are to be successfully met.

### **Significant Changes in Results to be Delivered in FY2007**

Expand the web-based geographic information system for the Arctic serving researchers, educators and decision makers across the circumpolar North.

Support research growth in mining, mineral and energy resources and infrastructure development.

Support growth of biomedical and health research and education programs.

Expand outreach efforts to the stakeholders of Alaska to facilitate the communication and interaction with Alaska communities, commercial interests and agencies to address their needs.

Increase Alaska wildfire research from the planning level to active participation in programs in other countries.

Support the coastline erosion assessment activities that are of vital concerns to coastline communities in Alaska.

Continue to support the Center for Alaska Native Health Research, which investigates weight, nutrition and health issues among Alaska Native populations.

Partner with the National Oceanic and Atmospheric Administration and the U.S. Geological Survey to acquire and distribute Landsat 5 imagery for Alaska to assist in natural disaster responses and monitor natural resources.

Play a leadership role in the 2007-2008 International Polar Year.

Enhance undergraduate research opportunities, particularly for underrepresented groups.

In partnership with the private sector, test new housing construction techniques designed for cold climate conditions and develop new instruments for monitoring indoor environmental conditions and pollutants.

## Major Component Accomplishments in 2005

President's Professor of Remote Sensing Buck Sharpton was appointed the chancellor's director of research, and the dean of the School of Management, Wayne Marr, was appointed the chancellor's director of economic development. Sharpton has begun charting the direction of research and developing new research capacity. Marr is helping coordinate the development of new opportunities for collaboration with industry and business partners.

The Geographic Information Network of Alaska at UAF provided Landsat 5 images to the Alaska Fire Service for mapping of wildland fires throughout the summer. Armed with these satellite images, fire personnel were better able to formulate their responses.

Institute of Arctic Biology scientists and state and federal biologists from across Alaska were monitoring migratory birds to determine how many are infected with avian viral subtypes and how influenza strains jump to other species, including humans.

The Center for Nanosensor Technology supported the establishment of two new research and teaching facilities: the CNT Biomedical Research Laboratory and the Laboratory for Reconfigurable Embedded Systems.

The Arctic Region Supercomputing Center hosted the Coalition for Academic Scientific Computing summer meeting. Frank Williams is the current chair of the 44-member organization. Leaders from academic high-performance computing centers across the country attended the meeting.

The largest scientific conference ever held in Fairbanks, *Evolution 2005*, with more than 1,000 attendees, was organized by the College of Natural Science and Mathematics, the Institute of Arctic Biology and Summer Sessions.

Sydonia (Donie) Bret-Harte, Institute of Arctic Biology research assistant professor, Terry Chapin, IAB professor of ecology, and colleagues at IAB's Toolik Field Station published in a *Nature* issue their finding that climate warming could lead to much greater release of carbon dioxide to the atmosphere and a greater positive feedback to further warming.

David Klein, IAB professor emeritus, was one of the lead authors of the 2004 Arctic Climate Impact Assessment report, which was produced by the International Arctic Research Center for the National Science Foundation.

IAB's Toolik Field Station hosted the annual Long-Term Ecological Research coordinating committee meeting in August 2004, which coincided with a visit by National Science Foundation Director Arden Bement.

The International Arctic Research Center sponsored eight international workshops related to climate change. IARC also initiated and organized an international Arctic Ocean observation project, working with 19 universities and seven organizations from seven countries.

UAF was awarded \$3.9 million from the National Center for Research Resources, the National Institutes of Health to complete funding for the Biological Research and Diagnostic Building. BiRD will be connected to the new state virology lab, which will share space with UAF for joint projects.

## Statutory and Regulatory Authority

No statutes and regulations.

Contact Information
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**Fairbanks Organized Research  
Component Financial Summary**

*All dollars shown in thousands*

	<b>FY2005 Actuals</b>	<b>FY2006 Management Plan</b>	<b>FY2007 Governor</b>
<b>Non-Formula Program:</b>			
<b>Component Expenditures:</b>			
71000 Personal Services	62,428.1	67,682.0	77,738.8
72000 Travel	5,134.3	5,388.4	5,494.4
73000 Services	27,942.3	41,857.8	44,085.8
74000 Commodities	8,387.5	10,749.8	10,749.8
75000 Capital Outlay	6,038.6	9,557.1	10,597.1
77000 Grants, Benefits	2,840.1	2,439.3	2,439.3
78000 Miscellaneous	0.0	0.0	0.0
<b>Expenditure Totals</b>	<b>112,770.9</b>	<b>137,674.4</b>	<b>151,105.2</b>
<b>Funding Sources:</b>			
1002 Federal Receipts	65,003.0	76,213.2	82,983.5
1003 General Fund Match	1,306.3	1,343.5	2,843.5
1004 General Fund Receipts	14,997.8	15,500.0	18,519.3
1007 Inter-Agency Receipts	1,108.9	3,200.0	3,200.0
1048 University Restricted Receipts	25,720.9	35,968.0	38,109.2
1061 Capital Improvement Project Receipts	244.0	0.0	0.0
1174 UA Intra-Agency Transfers	4,390.0	5,449.7	5,449.7
<b>Funding Totals</b>	<b>112,770.9</b>	<b>137,674.4</b>	<b>151,105.2</b>

**Summary of Component Budget Changes  
From FY2006 Management Plan to FY2007 Governor**

*All dollars shown in thousands*

	<u>General Funds</u>	<u>Federal Funds</u>	<u>Other Funds</u>	<u>Total Funds</u>
<b>FY2006 Management Plan</b>	<b>16,843.5</b>	<b>76,213.2</b>	<b>44,617.7</b>	<b>137,674.4</b>
<b>Proposed budget increases:</b>				
-UofA Competitive University Research Investment (Ph 1 of 5)- Matching Funds	1,500.0	5,600.0	0.0	7,100.0
-UofA Competitive University Research Investment (Ph 1 of 5)- Infrastructure	330.0	0.0	0.0	330.0
-U of A Adj Base Healthcare/Other Benefit Increase	745.3	459.2	728.8	1,933.3
-U of A Adj Base TRS Retirement Increase	10.8	78.3	295.4	384.5
-U of A Adj Base Pers Retirement Increase	917.3	117.5	139.0	1,173.8
-U of A Adj Base ORP Retirement Increase	202.2	73.2	193.1	468.5
-U of A Adj Base UNAD- Compensation Increase	0.0	0.0	17.5	17.5
-U of A Adj Base Non Bargaining- Step Increase	1.9	360.7	327.6	690.2
-U of A Adj Base Non Bargaining- Salary Market Increase	0.2	0.0	82.8	83.0
-U of A Adj Base Non Bargaining- Salary Grid Increase	530.9	0.0	0.0	530.9
-U of A Adj Base AHECTE-Salary Grid Increase	22.0	0.0	0.0	22.0
-U of A Adj Base AHECTE-Salary Step Increase	16.7	0.0	12.0	28.7
-U of A Adj Base UNAC-Market Increase	0.0	81.4	345.0	426.4
-U of A Adj Base UNAC-Grid Increase	242.0	0.0	0.0	242.0
<b>FY2007 Governor</b>	<b>21,362.8</b>	<b>82,983.5</b>	<b>46,758.9</b>	<b>151,105.2</b>

Fairbanks Organized Research Personal Services Information				
Authorized Positions			Personal Services Costs	
	<u>FY2006</u> <u>Management</u> <u>Plan</u>	<u>FY2007</u> <u>Governor</u>		
Full-time	502	507	Annual Salaries	24,786,112
Part-time	23	23	Premium Pay	0
Nonpermanent	0	0	Annual Benefits	12,283,828
			Labor Pool(s)	43,915,420
			<i>Less 4.01% Vacancy Factor</i>	(3,246,560)
<b>Totals</b>	<b>525</b>	<b>530</b>	<b>Total Personal Services</b>	<b>77,738,800</b>

Position Classification Summary					
Job Class Title	Anchorage	Fairbanks	Juneau	Others	Total
[No valid job title]	0	5	0	0	5
Able Seaperson	0	3	0	0	3
Admin Generalist 2	0	9	0	2	11
Admin Generalist 3	0	11	0	0	11
Admin Generalist 4	0	7	0	0	7
Admin Generalist 4	0	1	0	0	1
Admin Specialist 1	0	6	1	0	7
Admin Specialist 3	0	3	0	0	3
Admin Specialist 4	0	2	0	0	2
Admin Specialsit 2	0	3	0	0	3
Administrative Assistant	0	4	0	0	4
Analyst	0	0	0	1	1
Applications Specialist	0	1	0	0	1
Assistant Director(Admin)	0	1	0	0	1
Assistant Manager	0	1	0	0	1
Assistant Professor	0	37	1	6	44
Associate Director (Admin)	0	1	0	0	1
Associate Professor	1	20	1	3	25
Chief Scientist	0	1	0	0	1
Compositer	0	1	0	0	1
Contracting Officer	0	1	0	0	1
Coordinator (Exempt)	0	4	0	0	4
Coordinator (Nonexempt)	0	4	0	0	4
Crafts & Trades I (CT1)	0	1	0	1	2
Crafts & Trades II (CT2)	0	4	0	0	4
Crafts & Trades II(CT2)	0	1	0	0	1
Crafts & Trades III (CT3)	0	6	0	2	8
Crafts & Trades III(CT3)	0	1	0	0	1
Custodian (Cust)	0	2	0	0	2
Director (Academic)	0	4	0	0	4
Director (Admin)	0	6	0	0	6
Director (Admin/Non Executive)	0	2	0	0	2
Engineer	0	0	0	1	1
Executive Director	0	3	0	0	3
Executive Officer	0	4	0	0	4
Executive Secretary	0	1	0	0	1
First Mate	0	0	0	1	1
Fiscal Manager 2	0	1	0	0	1

Position Classification Summary						
Job Class Title	Anchorage	Fairbanks	Juneau	Others	Total	
Fiscal Manager 3	0	2	0	0	2	
Fiscal Professional 1	0	4	0	0	4	
Fiscal Professional 2	0	3	0	0	3	
Fiscal Technician 1	0	1	0	0	1	
Fiscal Technician 2	0	12	0	1	13	
Fiscal Technician 3	0	5	0	1	6	
Fiscal Technician 4	0	3	0	0	3	
Graphic Artist (Exempt)	0	1	0	0	1	
Human Resources Manager 1	0	1	0	0	1	
Human Resources Professional 2	0	2	0	0	2	
Human Resources Professional 3	0	1	0	0	1	
Human Resources Technician 2	0	1	0	0	1	
Human Resources Technician 3	0	1	0	0	1	
Information Officer (NonExmpt)	0	1	0	1	2	
IS Consultant 1	0	1	0	0	1	
IS Manager 1	0	1	0	0	1	
IS Manager 2	0	1	0	0	1	
IS Manager 3	0	4	0	0	4	
IS Manager 4	0	1	0	0	1	
IS Net Technician 6	0	3	0	0	3	
IS Net Technician 7	0	3	0	0	3	
IS Ops Technician 3	0	8	0	1	9	
IS Ops Technician 4	0	2	0	0	2	
IS Professional 1	0	2	0	0	2	
IS Professional 2	0	1	0	1	2	
IS Professional 3	0	36	0	1	37	
IS Professional 4	0	20	0	1	21	
IS Professional 5	0	3	0	0	3	
Lab Assistant	0	1	0	0	1	
Launch Officer	0	1	0	0	1	
Library Asst	0	2	0	0	2	
Maint Service Worker IV (MSW4)	0	2	0	0	2	
Maint Service Workr III (MSW3)	0	1	0	2	3	
Maint Service Workr III (MSW4)	0	0	0	1	1	
Maintenance Serv Worker (MSW1)	0	3	0	1	4	
Manager	0	10	0	1	11	
Manager (NonExempt)	0	1	0	1	2	
Marine Chief Engineer	1	0	0	1	2	
Marine Engineer First Asst	0	0	0	1	1	
Master (Ship)	0	0	0	1	1	
Post Doctoral Fellow	0	6	0	0	6	
President's Research Professor	0	1	0	0	1	
Professor	0	30	4	2	36	
Professor (FR)	0	1	0	0	1	
Professosr	0	1	0	0	1	
Program Developmemt Spec	0	1	0	0	1	
Program Director	0	1	0	0	1	
Programmer	0	1	0	0	1	
Project Engineer	0	1	0	0	1	
Property Specialist	0	1	0	0	1	
Publication Assistant	0	2	0	0	2	
Research Analyst	0	2	0	0	2	
Research Assoc Professor	0	9	0	0	9	
Research Associate	0	3	0	0	3	

<b>Position Classification Summary</b>						
<b>Job Class Title</b>	<b>Anchorage</b>	<b>Fairbanks</b>	<b>Juneau</b>	<b>Others</b>	<b>Total</b>	
Research Asst Professor	0	3	0	0	3	
Research Faculty	0	2	0	0	2	
Research Professional 1	0	2	0	0	2	
Research Professional 2	0	17	0	1	18	
Research Professional 3	0	12	0	0	12	
Research Professional 4	0	7	0	1	8	
Research Professional 5	0	2	0	0	2	
Research Professor	0	9	0	0	9	
Research Technician	0	7	0	0	7	
Research Technician 1	0	1	0	0	1	
Research Technician 2	0	9	0	1	10	
Research Technician 3	0	9	0	6	15	
Research Technician 4	0	9	0	0	9	
Steward	0	0	0	1	1	
Supervisor (Exempt)	0	5	0	1	6	
Supervisor (Nonexempt)	0	2	0	0	2	
Support Svcs Specialist(Expt)	0	1	0	0	1	
System Analyst	0	1	0	0	1	
Systems/Software Engineer	0	5	0	0	5	
Technician	0	2	0	0	2	
Vice Chancellor	0	1	0	0	1	
Writer/Developer (Nonexempt)	0	2	0	0	2	
<b>Totals</b>	<b>2</b>	<b>475</b>	<b>7</b>	<b>46</b>	<b>530</b>	