

Agricultural Development in the  
American Pacific  
Year 21

# **Plan of Work**

September 1, 2008 to August 31, 2009

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## **PROJECT NARRATIVE**

The Agricultural Development in the American Pacific (ADAP) Project, Year 21, USDA/CSREES Federal Administration Grants Program requests funding for a number of tasks with the goal of improving agricultural development across the Pacific. The ADAP Board of Directors reviewed and approved each unique ADAP task. The semi-annual review process ensures that each distinct task meets local and regional needs, while fully utilizing the regional capacity through regional, national, and international collaboration. Within this proposal, each task is detailed and includes project descriptions, objectives, procedures, justification, literature review (when applicable), budget and personnel support. Continuing ADAP task descriptions include progress reports from the past year, problems and proposed solutions; and budgets for activities in the upcoming year. Background information regarding the ADAP institutions, the Pacific Island region and ADAP's strategic plan is included in this introduction to provide an understanding of the ADAP project.

### **ADAP Institutions**

The Agricultural Development in the American Pacific (ADAP) project is a coalition of the five Land Grant institutions in the United States Affiliated Pacific Islands (USAPI): American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and the University of Hawaii. Each of these institutions receives USDA support for fulfilling its Land Grant mission of teaching, research and extension in agriculture and associated areas.

**American Samoa Community College (ASCC)** serves the US territory of American Samoa. Its campus is located near Pago-Pago, on the island of Tutuila. This two-year school offers certificates, Associate of Arts, Associate of Science, and Bachelor of Education degrees, in a program coordinated through the University Of Hawaii College Of Education. Approximately 3,204 students were enrolled in the Spring, Summer and Fall 2002 semesters. Certificate and Associate of Science degrees are offered in agriculture with options in Agricultural Science, Natural Resource Management and Agricultural Business.

**College of Micronesia (COM)** is an independent public corporation created by the Treaty among the governments of the Republic of the Marshall Islands, the Federated States of Micronesia, and the Republic of Palau, signed on April 1, 1993. COM is comprised of the three main college campuses in the three nations and the four mini-campuses in the four FSM States of Kosrae, Pohnpei, Chuuk, and Yap. A three-member Board of Regents, one member representing each of the three respective governments, governs the COM. At the COM Central Office, an Executive Director serves as the Resident Instruction Director, the Director of Cooperative Extension Service, and the Director of the Agriculture Experiment Station. COM is in partnership with the three colleges: College of Micronesia – Federated States of Micronesia, located in Kolonia, Pohnpei; Palau Community College, located in Koror, Palau; and the College of the Marshall Islands, located in Majuro, Marshall Islands. Each is administered separately by a President and governed by a local Board of Regents/Trustee. Resident instruction enrollment was about 3,000 students for the Fall, Spring and Summer 2002 semesters, including both full-time and part-time students at the three main campuses and students taking courses at the four mini-campuses in the

FSM. All three main campuses are offering Certificates of Achievement and Associate of Science and Associate of Arts degree programs.

**Northern Marianas College (NMC)** is the only accredited post-secondary educational institution in the Commonwealth of the Northern Mariana Islands (CNMI). Northern Marianas College was legally established first by executive order in 1981, then by statute in 1983, and finally by constitutional amendment in 1985. Today, the college provides academic and agricultural extension services on all three main islands of the commonwealth: Saipan, Tinian, and Rota. NMC offers the only bachelor's degree program, in elementary education, by a community college in its accrediting region. NMC offers a variety of classes to support student goals of: obtaining transfer credits to four year institutions, completing two year degrees in the arts and applied sciences, pursuing careers in nursing and elementary education, as well as providing adult, community, and continuing education opportunities for the entire community. NMC enrollment grew to 1725 in 2004.

The **University of Guam (UOG)** campus is located in Mangilao in the US territory of Guam. It serves the island of Guam and other islands in the Western Pacific region. The University has a faculty of nearly 230, an on-campus enrollment of 4,000 and more than 800 additional students in outreach programs throughout the region. The Colleges of Natural and Applied Sciences and Liberal Arts and Social Sciences, and the Schools of Business and Public Administration, Education, and Nursing and Health Sciences offer both baccalaureate and masters degrees.

The **University of Hawaii (UH)** state system has ten campuses on four islands, with 50,309 students enrolled for the fall 2005 semester. UH offers certificates, Associate, Bachelor, Masters and Doctoral degrees. Approximately 20,000 students are at the main campus, Manoa in Honolulu, which includes the College of Tropical Agriculture and Human Resources with 564 undergraduate students, 231 graduate students, and 220 faculty members.

## **MANAGEMENT SERVICES PROJECT**

Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Bonnie Tudela Royal (NMC), Annie Santos (UOG)
Funding Amount Requested	<b>\$199,593</b>

### **Project Description**

Administrative services and program support are essential for planning and implementing ADAP activities for the five Land Grant institutions to collaborate on research, extension and training activities. Management Services is the network hub for collaboration within the ADAP Project. Management Services promotes project accountability and a high standard of excellence.

The Management Services team includes the home office staff (Project Manager and Coordinator) based at the University of Hawaii and the Regional Coordinators from each ADAP institution. The home office staff is responsible for organizing, planning, coordinating and providing overall support services for the ADAP project. The home office administers the USDA grant through the Research Corporation of the University of Hawaii (RCUH). Funds are allocated to the ADAP institutions in accordance with the annual plans of work, but distributed on a cost-reimbursement basis. The home office maintains a fiscal accounting system consistent with the needs of participating institutions, RCUH and USDA. The home office also prepares technical and administrative reports that promote the functions and accomplishments of ADAP. With the assistance of the Regional Coordinators, the home office oversees the on-going projects, and coordinates follow-up activities for completed projects, or projects no longer directly receiving ADAP funds. The Regional Coordinators are the link for the home office to communicate with the ADAP Directors and project personnel throughout the region. Regional Coordinators also provide support services to the project principal investigators and cooperators.

Management services is responsible for organizing the semi-annual ADAP Board of Directors meetings, at which the ADAP Directors, Project Manager and Regional Coordinators plan, organize and make policy decisions for the project. The Board of Directors also maintains collaborative ties with other agencies and works to develop collaborative links with institutions within the USAPI, nationally, and internationally.

### **Objectives**

- Promoting accountability and a high standard of excellence
- Planning and coordination of ADAP projects, including follow-up activities for concluded projects
- Developing collaborative projects within the USAPI
- Planning and organization of semi-annual Board of Directors Meeting

### **Progress Report**

During FY 2007, ADAP did not receive funding, so we reallocated funding within each project, to allow work to continue over a two-year period. Within the Management

Services Project, the ADAP Board of Directors met twice each year to discuss project progress. The Summer 2006 ADAP Board of Directors Meeting was held in Monterey, California, July 12-13, 2006. The Winter 2007 ADAP Board of Directors Meeting was held in Koror, Republic of Palau, January 8–11, 2007. The Summer 2007 ADAP Board of Directors Meeting was held in Jackson, Wyoming, July 18-19, 2007. The Winter 2008 ADAP Board of Directors Meeting was held in Saipan, Commonwealth of the Northern Marianas, January 9-10, 2008. The board discussed regional needs, institutional capacity, and collaborative plans for meeting regional needs. Topics of discussion included human and animal health issues (specifically leptospirosis, and avian influenza), human health issues (specifically the prevalence of chronic health conditions such as diabetes and obesity), veterinary/paraveterinary regional needs, distance education opportunities within the region, meeting regional energy requirements and biofuel resources, community sustainability needs (specifically energy, water, and food resources) and collaborative programs with University of Alaska and the Cari-Pac consortium. By limiting the meeting to only the directors (instead of the directors and coordinators), we were able to conserve funds and hold meetings during FY2007. In FY2008, we plan to extend invitations to the coordinators. The coordinators provide all of the logistical support for the ADAP projects. The joint planning session held during the Board of Directors Meetings, allows the coordinators to better understand the requirements places upon them. During FY2006 and FY2007, we relied on email and phone calls, resulting in a slower delivery of services.

ADAP staff provided logistical support for the ADAP Professional Development, and the Communications, Information, and Publications projects. At the American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, ADAP staff members coordinated ongoing ADAP projects and expenditures, provided administrative support to collaborators and students, and coordinated meeting arrangements for ADAP Board of Director's meetings.

Within Management Service, the ADAP coordinates follow-up activities for concluded projects such as the Pacific Islands Distance Diagnostics and Recommendation System (PIDDRS). The PIDDRS project was funded under ADAP Years 16 and 17 to provide regional implementation of an identification system for plant disease, and invasive species, based on the exchange of digital images across a national network of diagnosticians. The UH-based ADAP staff developed a PIDDRS User Manual to provide instructions on the use of the PIDDRS database. This self-training manual will allow project services to continue and expand, even after the initial investigators and collaborators have moved on to other projects.

### **Proposed Activities for Year 21 (FY2008) (Procedures)**

The ADAP Board of Directors will meet in Mangilao, Guam for the Winter 2009 meeting. The Summer 2009 meeting will be held in conjunction with the WAAESD Joint Summer meeting. Topics of discussion will include further implementation of a paraveterinary distance education program, Level 2, with the assistance of Secretariat of the Pacific Community; discussion of how to leverage ADAP funds to expand the investigations into Pacific crops as biofuel sources, specifically focused on coconut oil, and coconut husks; and discussion of implementation plans for ADAP's Food Security working group recommendations.

ADAP staff will provide logistical support for the ADAP Professional Development, and the Communications, Information, and Publications projects. At the American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, ADAP staff members will coordinate ongoing ADAP projects, providing administrative support to collaborators and students, and coordinating the ADAP Board of Director's meetings, and the ADAP Food Security meeting.

As part of providing logistical support to ADAP projects, American Samoa Community College will support the Scholars Program and the Summer Institute, a high school program to encourage interest in the agricultural sciences. The Northern Marianas College, will support the NMC CREES ADAP Summer Internship Program. The University of Guam will support the Summer Research Apprenticeship Program.

As part of providing logistical support to ADAP projects, the College of Micronesia, staff will assist the enrollment of students majoring in agriculture/home economics, and continue facilitation/support for ADAP project cooperators in the implementation of their respective projects.

At the University of Hawaii, we will continue to monitor the budget, communicate with the USDA, update the sub-contracts with the ADAP collaborators, and work to update older ADAP products with new technologies, or new information. We will continue to update and evolve the ADAP website to create a vital communication link between our many products.

### **Estimated Impact of the Project to Date (Justification)**

Under the Management Service project, staff at American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and University of Hawaii are providing administrative support to the current and previous ADAP projects, accurately reporting project expenditures, and closely monitoring project work to ensure that expenditures match work achieved. The Management Services project advances the goals of increased project accountability, and a high standard of excellence.

**Budget**

**ADAP Core Project: Management Services (MS)**  
ADAP Year 21 (FY2008)

	ASCC	COM	NMC	UOG	UH	TOTAL
Salary	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 63,000	\$ 95,000
Fringe	1,200	1,200	1,200	1,200	24,104	28,904
Equipment						
Supplies	1,000	1,000	1,000	1,000	1,000	5,000
Travel Domestic	8,160	7,660	5,260	3,790	11,020	35,890
Travel Foreign						
Publication					434	434
Other Costs	1,500	1,500	1,500	1,500	3,800	9,800
Pending						
Indirect Costs:			2,000	2,000	20,565	24,565
<b>TOTAL:</b>	<b>\$ 19,860</b>	<b>\$ 19,360</b>	<b>\$ 18,960</b>	<b>\$ 17,490</b>	<b>\$ 123,923</b>	<b>\$ 199,593</b>
<b>Total w/out OH</b>	<b>\$ 19,860</b>	<b>\$ 19,360</b>	<b>\$ 16,960</b>	<b>\$ 15,490</b>	<b>\$ 103,358</b>	<b>\$ 175,028</b>

<b>Budget Breakdown:</b>	<b>Sub-Total</b>	<b>Total</b>
<b>Salaries:</b>		
Region Coordinators Salary	4 x \$8,000	\$32,000
HO Staff (2 Staff members)		\$63,000
<b>Total Salaries:</b>		<b>\$95,000</b>
<b>Fringe Benefits</b>		
Fringe: Coordinators (Fringe @ 25%)	4 x \$1,200	\$4,800
HO Staff (2 Staff members)		\$24,104
<b>Total Fringe:</b>		<b>\$28,904</b>
<b>TOTAL SALARY AND FRINGE:</b>		<b>\$123,904</b>
<b>Supplies:</b>		
<b>ASCC:</b>		
Office Supplies	\$500	
Computer		
Supplies	\$500	\$1,000
<b>COM:</b>		
Office Supplies	\$500	
Computer		
Supplies	\$500	\$1,000
<b>NMC:</b>		
Office Supplies	\$500	
Computer		
Supplies	\$500	\$1,000
<b>UOG:</b>		
Office Supplies	\$500	
Computer		
Supplies	\$500	\$1,000
<b>UH:</b>		
Office Supplies	\$500	
Computer		
Supplies	\$500	\$1,000
<b>TOTAL SUPPLIES:</b>		<b>\$5,000</b>

<b>Travel (DOMESTIC):</b>				
<b>ASCC:</b>				
<b>Director travel to Guam for January 2009 Directors Meeting</b>				
R/T airfare (American Samoa/GUM/American Samoa)		\$2,700		
Travel Per Diem		\$720		
Ground				
Transportation		\$150	\$3,570	
<b>Director and Coordinator to Washington for July 2009 Directors Meeting</b>				
R/T airfare (A. Samoa/Washington/A. Samoa)	2.00	\$3,000		
Travel Per Diem		\$1,440		
Ground				
Transportation		\$150	\$4,590	
<b>Sub-Total for ASCC:</b>				<b>\$8,160</b>
<b>COM:</b>				
<b>Director travel to Guam for January 2009 Directors Meeting</b>				
R/T airfare (Pohnpei/GUM/Pohnpei)		\$1,000		
Travel Per Diem		\$720		
Ground				
Transportation		\$150	\$1,870	
<b>Director and Coordinator to Washington for July 2009 Directors Meeting</b>				
R/T Airfare (Pohnpei/Washington/Pohnpei)	2.00	\$4,200		
Travel Per Diem		\$1,440		
Ground				
Transportation		\$150	\$5,790	
<b>Sub-total for COM:</b>				<b>\$7,660</b>
<b>NMC:</b>				
<b>Director travel to Guam for January 2009 Directors Meeting</b>				
R/T airfare (Saipan/GUM/Saipan)		\$200		
Travel Per Diem		\$720		
Ground				
Transportation		\$150	\$1,070	
<b>Director and Coordinator to Washington for July 2009 Directors Meeting</b>				
R/T Airfare (Saipan/Washington/Saipan)	2.00	\$2,600		
Travel Per Diem		\$1,440		
Ground				
Transportation		\$150	\$4,190	
<b>Sub-Total for NMC:</b>				<b>\$5,260</b>
<b>UOG:</b>				
<b>Director and Coordinator to Washington for July 2009 Directors Meeting</b>				
R/T Airfare (Guam/Washington/Guam)	2.00	\$2,200		
Travel Per Diem		\$1,440		
Ground				
Transportation		\$150	\$3,790	
<b>Sub-Total Travel Cost for UOG:</b>				<b>\$3,790</b>
<b>UH:</b>				
<b>Director, PM, and Coordinator travel to Guam for January 2009 Directors Meeting</b>				
R/T Airfare (Honolulu/GUM/Honolulu)	3	\$4,800		
Travel Per Diem		\$2,160		
Ground Transportation		\$200	\$7,160	

<b>Director, PM, and Coordinator travel to Washington for July 2009 Directors Meeting</b>				
R/T Airfare (Honolulu/Washington/Honolulu)	3	\$1,500		
Travel Per Diem Ground		\$2,160		
Transportation		\$200	\$3,860	
<b>Sub-Total Domestic Travel Cost for UH:</b>				<b>\$11,020</b>
<b>TOTAL TRAVEL:</b>				<b>\$35,890</b>
<b>Publications:</b>				
UH: Accomplishment Report/Plans of Work			\$434	<b>\$434</b>
<b>TOTAL PUBLICATIONS</b>				<b>\$434</b>
<b>Other Costs:</b>				
<b>ASCC:</b>				
Mailing/Postage			\$300	
Phone				
Charges/Faxes			\$300	
Long-Distance			\$300	
Photocopying			\$300	
Internet Access			\$300	
<b>Sub-total ASCC:</b>				<b>\$1,500</b>
<b>COM:</b>				
Mailing/Postage			\$300	
Phone				
Charges/Faxes			\$300	
Long-Distance			\$300	
Photocopying			\$300	
Internet Access			\$300	
<b>Sub-total COM:</b>				<b>\$1,500</b>
<b>NMC:</b>				
Mailing/Postage			\$300	
Phone				
Charges/Faxes			\$300	
Long-Distance			\$300	
Photocopying			\$300	
Internet Access			\$300	
<b>Sub-total NMC:</b>				<b>\$1,500</b>
<b>UOG:</b>				
Mailing/Postage			\$300	
Phone				
Charges/Faxes			\$300	
Long-Distance			\$300	
Photocopying			\$300	
Internet Access			\$300	
<b>Sub-total UOG:</b>				<b>\$1,500</b>

<b>UH:</b>				
Mailing/Postage			\$200	
Phone				
Charges/Faxes			\$200	
Long-Distance			\$200	
Photocopying			\$200	
Internet Access			\$200	
Meeting Refreshments and Room Rental in Washington and Guam			\$2,800	
<b>Sub-total UH:</b>				<b>\$3,800</b>
<b>TOTAL OTHER:</b>				<b>\$9,800</b>
<b>Overhead Costs:</b>				
<b>NMC, UOG</b>	2,000	2	\$4,000	
<b>UH</b>			\$20,565	\$24,565
<b>(No Overhead Costs for COM and ASCC)</b>				
<b>BUDGET W/OUT OVERHEAD:</b>				\$175,028
<b>TOTAL BUDGET:</b>				<b>\$199,593</b>

## PROFESSIONAL DEVELOPMENT PROJECT

Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Bonnie Tudela Royal (NMC), Annie Santos (UOG)
Funding Amount Requested	<b>\$70,000</b>

### Project Description

The Professional Development Project is a composite of three projects funded during the FY2006: Leadership Development, Human Resources and Capacity Building, and Enrichment Opportunities. Although previously the Board of Directors sought to view each individual project as unique, upon further investigation, the Board found that the project goals were nearly identical. These three projects sought to improve institutional capacity through three different avenues. Further, the board found that each institution had sought to transfer funds between these three projects in order to meet the needs of the particular institution. Ultimately, each institution has a hierarchy of needs, and having funds dedicated to a low-priority need was not conducive to improving institutional capacity. At the Winter 2008 Board meeting, the directors agreed to combine the three projects to allow each institution greater freedom to focus on the areas most critical to improving the institution capacity. The Professional Development project has three focuses for improving institutional capacity: leadership development, staff enrichment opportunities, and educational opportunities for staff, faculty, and college and high school students.

**Focus 1: Leadership development** The growth and development of the Pacific Land Grant colleges is tied closely to the growth and development of the small island communities they serve. By supporting the development of strong leadership qualities, ADAP can give the colleges the best chance to make the organizational strides required by their clients and the communities.

**Focus 2: Staff development** By supporting staff development opportunities, staff training, and institutional initiatives, ADAP can offer a solution to having too few employees, or under-trained employees. Oftentimes, new guidelines and changing federal accounting regulations require specialized knowledge and greater technological skills. Due to the limited human resources of the smaller Land Grant institutions, there is increasing pressure on current staff to take on greater responsibility and to cross-train with other employees. The successful transfer and adoption of knowledge will enhance the productivity and efficiency of those employees. ADAP also aims to target institutional initiatives such as strategic planning. The strategic planning process benefits the institution, and the participants, as they learn more about their institution, their department, and their role within the system.

**Focus 3: Educational initiatives** By supporting education initiatives, ADAP can help provide qualified employees support to enhance the institution and government services and to advance local agricultural development. Low enrollment in agriculture and home economics classes across the region's high schools continues to deprive ADAP institutions of future employees who are knowledgeable in these areas. ADAP has developed many unique programs targeted at different stages of educational

development. Each ADAP institution has the opportunity to focus on one, or many of the programs, depending on the needs of the institution and community: A.) The Financial Assistance for an Advanced Degree program provides learning opportunities for Land Grant staff and others seeking a Doctorate or Masters degree. This program benefits both the institution and the individual by creating opportunities to expand or strengthen Land Grant programs and to advance professionally. Financial assistance can be used for U.S. or foreign institutions, but students going to Land Grant colleges are given preference. On-line or virtual degree programs are also considered for this assistance. B.) The Financial Assistance for a 2- or 4-Year College Program provides limited financial support for students pursuing a certificate or degree from their local land grant institution in agriculture or a related field. Assistance is limited and continued assistance is dependent on satisfactory academic performance. ADAP directors and regional coordinators provide assistance with registration, course selection, and career guidance. C.) The High School Apprenticeship Program provides high school students an opportunity for a hands-on educational experience in agricultural research or extension, increasing awareness of the educational opportunities and careers available in agriculture, home economics, and related fields

### **Objectives**

- Develop leadership abilities of land grant directors, administrators, departmental chairs, researchers, and employees.
- Create opportunities for Land Grant staff and others to pursue advanced degrees in agriculture or a related field
- Create opportunities for current graduate and undergraduate to continue their studies within agriculture or a related field leading to a degree or certificate
- Create opportunities for hands-on learning experiences for high school students to learn more about agricultural research and extension
- Staff training and professional development opportunities
- Strategic plans for each of the ADAP institutions

### **Progress Report**

During FY 2007, ADAP did not receive funding, so we reallocated funding within each project, to allow work to continue over a two-year period. ADAP provided funding for staff members to pursue education opportunities. Two American Samoa Community College staff members completed their degrees in Spring 2007: Faiane Miller (Natural Resources major) and Laumata Talofa (General Agriculture major). Miss Miller is currently participating in the forestry internship program in Costa Rico. The College of Micronesia continues to fund advanced degree courses for Mr. Robert Jackson (San Diego State University online Masters Degree program on Educational Leadership) and Mark Kostka's Master's studies of botany at University of Hawaii, Hilo. The Northern Marianas College continues to fund three students: Barnaby Lizama, staff pursuing an AA in Natural Resource Management; Patricia Coleman, staff pursuing BA in Education; and Lawrence Duponcheel, staff pursuing MA. The University of Guam provides financial assistance to two full-time employees within the college: Mr. Jesse Rosario, pursuing a MA in Business Administration, and Mr. Frank Alig, pursuing a MA in Environmental Science.

ADAP funded opportunities for high school students to experience college through short, summer learning opportunities. At ASCC, eleven students participated in the 2007 Summer Institute Program, which allows high school students the opportunity to take agricultural classes at the college. At the University of Guam, five students participated in the 2007 Summer Research Apprenticeship Program. This program employs high school students to work alongside our research scientists, assisting them with ongoing research projects with either laboratory, fieldwork, or a combination of the two. Students may also be assigned to work with an extension agent under our Cooperative Extension Service, assisting in any number of extension service projects and activities. This summer's program ran for a period of five weeks from June 25 – July 27, 2007. From about thirty applications received, ten students were selected to participate in the program. Five were funded under the ADAP project and the five were funded by the Resident Instruction Grant awarded to the CariPac Consortium. Students had the opportunity to participate in research and extension projects in the fields of aquaculture, ornamental horticulture, biology, agricultural engineering, and 4-H summer youth activities.

ADAP also funded two workshops to address the issue of the role of administrators within the Land Grant system. The first workshop (January 8-11, 2007) highlighted the role of administrators within the Land Grant System, the history of the Land Grant System, and a workshop on understanding the legislative process and its applicability to the Land Grant College. The second workshop, held in Washington, DC, in conjunction with the CARET meeting, had seven attendees. Participants met with Senator Inouye and learned about the legislative process.

### **Proposed Activities for Year 21 (FY2008) (Procedures)**

Each institution has developed a unique plan for staff professional development: At the University of Hawaii, ADAP will fund one participant to the Leadership Development in the 21st Century (LEAD21) course, offered by the Fanning Institute, University of Georgia. The Leadership Development in the 21st Century conference is a nationally recognized program focused predominately on the highest administrators within the Land Grant Colleges. This nine-month program consists of a three conferences. The program begins June and ends in February of the next year.

At the University of Guam, ADAP will support the 2009 Summer Research Apprenticeship Program and send one faculty member to a leadership workshop in Honolulu, HI. At the College of Micronesia, ADAP will support faculty and staff educational opportunities, to include both college coursework and staff development workshops in time management, and computer skills.

At the Northern Marianas College, ADAP will take a three-prong approach by supporting staff members who pursue advance degrees, supporting an administrator to attend a leadership development course in Honolulu, HI, and supporting the high school Summer Internship Program. The NMC CREES ADAP Summer Internship Program gives an opportunity to high school students (juniors and seniors) to get hands-on training in the field of Agriculture and Family Consumer Sciences (FCS). Participants have the opportunity to learn the ins and outs of agriculture and FCS extension and research work. They are able to participate in various programs such as Plant Pathology, Entomology, Crop Production, Nutrition Program, 4H, and Aquaculture and

Livestock Improvement Programs. Participants assist Extension Agents with daily operations of the programs along with community services such as farm visits, community event displays and workshops. At the conclusion of the program, interns are required to submit a report of their experience.

At the American Samoa Community College, ADAP will staff members who pursue advanced degrees, and support the 2009 Summer Institute Program, which allows high school students the opportunity to take agricultural classes at the college.

### **Estimated Impact of the Project to Date (Justification)**

At University of Guam, Jesse Rosario, a recent MA graduate (funded by the Professional Development program), was promoted to a Program Coordinator IV from Administrative Officer. By pursuing his master's degree in Business Administration, this will enhance his job performance in supporting and promoting the mission of the college and university. Likewise, Frank Alig, who is a Biologist III with the Fadian Hatchery, will certainly provide valuable knowledge with his recent MA degree, funded by the University of Guam's Professional Development Program. The Professional Development program also supported the participation of faculty in the LEAD21 and the ESCOP/ACOP leadership development programs. UOG has found that faculty who underwent the training proved to be very beneficial to our college, and many have assumed positions within our administrative level in the college.

At the College of Micronesia, the staff had gained new knowledge and skills in both programs and administration. At ASCC, student enrollment in the Agriculture and Life Sciences Associate of Sciences degree programs has increased.

**Budget**

**ADAP Core Project: Professional Development**  
ADAP Year 21 (FY2008)

	ASCC	COM	NMC	UOG	UH	TOTAL
Salary				\$ 7,200		\$ 7,200
Fringe				550		550
Equipment						-
Supplies	250		800	250		1,300
Travel Domestic	2,750	6,200	3,200	2,300	5,500	19,950
Travel Foreign						-
Publication						-
Other Costs	11,000	7,800	10,000	3,700	8,500	41,000
Pending						-
Indirect Costs						
<b>TOTAL:</b>	<b>\$ 14,000</b>	<b>\$ 14,000</b>	<b>\$ 14,000</b>	<b>\$ 14,000</b>	<b>\$ 14,000</b>	<b>\$ 70,000</b>

<b>Budget Breakdown:</b>	<b>Sub-Total</b>	<b>Total</b>
<b>SALARY:</b>		
UOG: Student Assistants for Summer Internship Program	\$7,200	
<b>TOTAL SALARY:</b>		<b>\$7,200</b>
<b>FRINGE BENEFITS:</b>		
UOG: Student Assistants for Summer Internship Program (Social security 7.65%)	\$550	
<b>TOTAL FRINGE BENEFITS:</b>		<b>\$550</b>
<b>EQUIPMENT (ITEMS &gt;\$5000)</b>		
No Equipment can be purchased with Professional Development Funds	\$0	
<b>TOTAL EQUIPMENT:</b>		<b>\$0</b>
<b>SUPPLIES</b>		
<b>ASCC:</b>		
Other Supplies	\$250	
<b>Sub-total for ASCC:</b>	\$250	
<b>NMC:</b>		
Other Supplies	\$800	
<b>Sub-total for NMC:</b>	\$800	
<b>UOG:</b>		
Other Supplies	\$250	
<b>Sub-total for UOG:</b>	\$250	
<b>TOTAL SUPPLIES</b>		<b>\$1,300</b>
<b>TRAVEL (DOMESTIC):</b>		
<b>ASCC:</b>		
<i>Administrator to Leadership Conference in Honolulu</i>		
R/T airfare (American Samoa/HNL/American Samoa)	\$1,600	
Per Diem (4 days @ \$250)	\$1,000	
Ground Transportation	\$150	
<b>Sub-total for ASCC:</b>	\$2,750	

<b>COM:</b>		
<b>Administrator to Leadership Conference in Honolulu</b>		
R/T airfare (Pohnpei/HNL/Pohnpei)	\$2,000	
Per Diem (4 days @ \$250)	\$1,000	
Ground Transportation	\$100	
<b>Administrator to Leadership Conference in Honolulu</b>		
R/T airfare (Pohnpei/HNL/Pohnpei)	\$2,000	
Per Diem (4 days @ \$250)	\$1,000	
Ground Transportation	\$100	
<b>Sub-total for COM:</b>		\$6,200
<b>NMC:</b>		
<b>Administrator to Leadership Conference in Honolulu</b>		
R/T airfare (Saipan/HNL/Saipan)	\$2,000	
Per Diem (4 days @ \$250)	\$1,000	
Ground Transportation	\$200	
<b>Sub-total for NMC:</b>		\$3,200
<b>UOG:</b>		
<b>Administrator to Leadership Conference in Honolulu</b>		
R/T airfare (Guam/HNL/Guam)	\$1,700	
Per Diem (2 days @ \$250)	\$500	
Ground Transportation	\$100	
<b>Sub-total for UOG:</b>		\$2,300
<b>UH:</b>		
<b>Conference - LEAD21, Session 1 (Indiana)</b>		
Airfare	\$1,000	
Per Diem (4 days @ \$138)	\$552	
Ground Transportation	\$75	
<b>Conference - LEAD21, Session 2 (Missouri)</b>		
Airfare	\$1,000	
Per Diem (4 days @ \$165)	\$668	
Ground Transportation	\$75	
<b>Conference - LEAD21, Session 3 (DC)</b>		
Airfare	\$1,000	
Per Diem (4 days @ \$262)	\$1,048	
Ground Transportation	\$82	
<b>Sub-total for UH:</b>		\$5,500
<b>TOTAL DOMESTIC TRAVEL:</b>		<b>\$19,950</b>
<b>TRAVEL (FOREIGN):</b>		
<b>TOTAL FOREIGN TRAVEL:</b>		<b>\$0</b>
<b>PUBLICATIONS</b>		
<b>TOTAL PUBLICATION COST:</b>		<b>\$0</b>

<b>OTHER COSTS</b>		
<b>ASCC:</b>		
Summer Inst. Prog. (tuition, fees, and stipents for 8 students)	\$4,000	
Staff development course tuition, and conference registration	\$7,000	
<b>Sub-total for ASCC:</b>		\$11,000
<b>COM:</b>		
Financial Assistance	\$6,000	
Workshop fees	\$1,800	
<b>Sub-total for COM:</b>		\$7,800
<b>NMC:</b>		
Stipents for NMC CREES ADAP Summer Internship Program	\$4,000	
Financial Assistance	\$4,000	
Conference Registraion Fee for adminstrator leadership course	\$2,000	
<b>Sub-total for NMC:</b>		\$10,000
<b>UOG:</b>		
Financial Assistance	\$3,500	
Workshop fees	\$200	
<b>Sub-total for UOG:</b>		\$3,700
<b>UH:</b>		
Conference Registraion Fees - LEAD21 2009-2010 Class	\$8,500	
<b>Sub-total for UH:</b>		\$8,500
<b>TOTAL OTHER COSTS:</b>		<b>\$41,000</b>
<b>TOTAL BUDGET:</b>		<b>\$70,000</b>

## FOOD SECURITY PROJECT

Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Bonnie Tudela Royal (NMC), Annie Santos (UOG)
Funding Amount Requested	<b>\$38,950</b>
Pending Allocation	<b>\$30,000</b>

### Project Description

The aim of the Food Security Project is to develop avenues for communities to provide a balanced diet to all households within the United States-Affiliated Pacific Islands (USAPI). Further, our aim is to ensure that these food sources are safe from the effects of economic recession, environmental change, labor shortages, and local, national, and international trade tariffs. Long-term food security requires that each island have sustainable agriculture, both on a small-scale and commercial basis. By providing opportunities for increased food security, we can positively influence our small island economies. This project will also empower communities and individuals to make informed decisions about their health, through a healthy, well-balanced diet. A project of this scope requires a concerted effort to garner community support throughout the entire process. With the help of local community organizations, church organizations, and local government resources, we aim to create an environment for change.

### Objectives

- Match appropriate agricultural technologies to community and island needs.
- Develop an integrated program that allows community members to make informed decisions about a healthy diet through sustainable, backyard agriculture.
- Identify government level challenges to sustainable region-wide agriculture, such as trade tariffs and agricultural water rights.
- Develop working groups to explore each island's challenges to sustainable agriculture and food security, and explore the cultural and economic barriers to island agricultural sustainability.
- Develop a 5-year preliminary roadmap to island-wide, countrywide, and region-wide food security.

### Proposed Activities for Year 21 (FY2008) (Procedures)

Over the next year, the American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and University of Hawaii will work together to identify the challenges to backyard agriculture, locally-grown produce for sale, and challenges faced by farmers who export produce to another island. We will begin with survey conducted by each college's staff. From this data, we will build a list of challenges that island food security faces. We will then organize a food security working group to develop a 5-year roadmap for mitigating the risks to food security both island-wide, and region-wide. The food security working group will meet in Honolulu, HI, in November 2008, to match appropriate agricultural technologies to local needs, and develop a list of research priorities for long-term challenges.

The ADAP Board of Directors will meet in January 2009 to review the list of research priorities, and match the expertise within the ADAP institutions with the research priorities, and use the pending \$30,000 to begin work toward the identified research goals.

**Budget**

**Food Security Meeting**  
ADAP Year 21 (FY2008)

	ASCC	COM	NMC	UOG	UH	TOTAL
Salary						
Fringe						
Equipment						
Supplies					\$ 1,000	\$ 1,000
Travel Domestic	7,950	9,100	9,100	8,200	3,100	37,450
Travel Foreign						
Publication					500	500
Other Costs						
Pending					30,000	30,000
Indirect Costs						
<b>TOTAL:</b>	<b>\$ 7,950</b>	<b>\$ 9,100</b>	<b>\$ 9,100</b>	<b>\$ 8,200</b>	<b>\$ 34,600</b>	<b>\$ 68,950</b>

<b>Budget Breakdown:</b>		<b>Sub-Total</b>	<b>Total</b>
<b>SUPPLIES</b>			
<b>Meeting supplies</b>		\$ 1,000	
<b>TOTAL SUPPLIES:</b>			<b>\$1,000</b>
<b>Travel (DOMESTIC):</b>			
<b>Ag Leader to Food Security Meeting in Honolulu</b>			
R/T airfare (American Samoa/HNL/Am. Samoa)	3.00	\$4,800	
Per Diem (4 days @ \$250)		\$3,000	
Ground Transportation		\$150	
<b>Sub-total for ASCC:</b>			\$7,950
<b>COM:</b>			
<b>Ag Leader to Food Security Meeting in Honolulu</b>			
R/T airfare (Pohnpei/HNL/Pohnpei)	3.00	\$6,000	
Per Diem (4 days @ \$250)		\$3,000	
Ground Transportation		\$100	
<b>Sub-total for COM:</b>			\$9,100
<b>NMC:</b>			
<b>Ag Leader to Food Security Meeting in Honolulu</b>			
R/T airfare (Saipan/HNL/Saipan)	3.00	\$6,000	
Per Diem (4 days @ \$250)		\$3,000	
Ground Transportation		\$100	
<b>Sub-total for NMC:</b>			\$9,100
<b>UOG:</b>			
<b>Ag Leader to Food Security Meeting in Honolulu</b>			
R/T airfare (Guam/HNL/Guam)	3.00	\$5,100	
Per Diem (4 days @ \$250)		\$3,000	
Ground Transportation		\$100	
<b>Sub-total for UOG:</b>			\$8,200

<b>UH:</b>			
<b>Ag Leader to Food Security Meeting in Honolulu</b>			
R/T airfare (CA/HNL/CA)	2.00	\$1,000	
Per Diem (4 days @ \$250)		\$2,000	
Ground Transportation		\$100	
<b>Sub-total for UH:</b>			\$3,100
<b>TOTAL TRAVEL:</b>			<b>\$37,450</b>
<b>PUBLICATIONS</b>			
Meeting minutes			\$500
<b>TOTAL PUBLICATION COST:</b>			<b>\$500</b>
<b>OTHER COSTS</b>			
<b>UH:</b>			
Pending allocation by ADAP Board of Directors			\$30,000
<b>Sub-total for UH:</b>			
<b>TOTAL OTHER COSTS:</b>			<b>\$30,000</b>
<b>TOTAL BUDGET:</b>			<b>\$ 68,950</b>

## **COMMUNICATIONS, INFORMATION AND PUBLICATIONS SERVICES (CIPS) PROJECT**

Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator), Dennis Miyahara (Media Specialist), Sharee Pepper (Grant Coach), Eileen Herring (Librarian)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Bonnie Tudela Royal (NMC), Annie Santos (UOG)
Funding Amount Requested:	<b>\$10,000</b>

### **Project Description**

The ADAP Communications, Information and Publications Service (CIPS) project seeks to address the needs of the research staff at the ADAP institutions, with the goal of increasing research productivity in agricultural sciences. Through the CIPS project, ADAP provides communication services for regional coordination, access to research materials, and assistance with printing/publication of research and extension materials.

In order to provide adequate regional coordination, it is necessary to have lines of communication with intra-island, inter-island, and regional capabilities. Within in this project, ADAP provides funds for internet access, long-distance telephone calling, facsimile machines, and the appropriate software to transfer and receive electronic documents. Additionally, the increased utilization of electronic communication capabilities can greatly reduce travel costs for various meetings, training, and workshops.

With the collaboration of the University of Hawaii's Hamilton Library, the CIPS project provides access to research materials for local scientists, and extension agents, across the USAPI. Eileen Herring, a librarian with the Hamilton Library, provides scientific research materials for the USAPI. Due to the limited library resources of many of the Pacific Land Grants, agricultural research materials, journal articles, and books are not available. Access to appropriate research materials directly impacts the robustness of the grant proposals, and the strength of the institution's research capabilities. The CIPS project results in more open and immediate access to information. Thus, reducing duplication of work in the region, and leading to a more efficient use of fiscal and human resources.

ADAP – CIPS sponsors the Traditional Pacific Island Crops, Pacific AgNlc database, found at <http://libweb.hawaii.edu/libdept/scitech/agnic/>. The Traditional Pacific Island Crops database provides a user-friendly gateway to the internet resources for agricultural research and extension materials on twelve of the food crops most widely grown across the USAPI, providing a valuable resource for researchers, farmers and extension agents across the Pacific. Additionally, ADAP-CIPS sponsors participation in the Pacific Islands Association of Libraries and Archives (PIALA) conferences. The conferences provide an opportunity to exchange agricultural research and extension materials across the Pacific region, from both USAPI and international resources.

The final step in taking research findings from the laboratory to the farmers is to provide appropriate extension materials. Developing appropriate materials takes time

and expertise. Within the CIPS project, University of Hawaii the Educational Media Specialist provides assistance with fliers, posters, brochures, and video production.

### **Objectives**

- Provide communication services for regional coordination, such as internet access, document exchange services via fax, internet or mail, and communication services via telephone, email or fax.
- Provide access to research materials through library document delivery services, internet-based database access for extension materials (such as AgNic), and library material exchanges and donations.
- Provide publication services for research and extension materials, brochures, and posters. Provide assistance with layout, design, and proofreading. Provide assistance with pre-printing requirements (pre-flight), and other technical aspects of printing/publication.

### **Progress Report**

The American Samoa Community College provided Internet access to all College of Natural Resources staff and faculty. The College of Micronesia provided Internet connectivity capability to the Central Office and the 3 colleges and six campuses.

At the University of Hawaii, in conjunction with the Hamilton Library, during the last six months of 2006 and the first six months of 2007, Eileen Herring conducted 11 literature searches, provided 99 journal articles, and 2 book loans to scientists and extension agents within the USAPI.

### **Proposed Activities for Year 21 (FY2008) (Procedures)**

The American Samoa Community College, College of Micronesia, Northern Marianas College, and University of Guam will continue to utilize these funds to promote research, by maintaining communication services, and promoting the UH – CIPS Document Delivery services. These institutions will also work to publish extension, research and academic ADAP brochures/videos.

UH will also continue to provide Agricultural Document Delivery Services.

### **Estimated Impact of the Project to Date (Justification)**

American Samoa Community College, College of Micronesia, Northern Marianas College, and University of Guam continue to improve project accountability, improve project communication, and improve access to useful scientific and extension materials. With increased access to research and extension information through the Agricultural Document Delivery Service, ADAP institutions are better able to serve their communities and their clients. Additionally, with access to the research resources at the University of Hawaii's Hamilton Library, scientists in the USAPI are better prepared to develop strong experiments, and fundable grant proposals.

**Budget**

**ADAP Core Project: Communication, Information & Publication Services (CIPS)**  
ADAP Year 21 (FY2008)

	ASCC	COM	NMC	UOG	UH	TOTAL
Salary						
Fringe						
Equipment						
Supplies	\$ 600	\$ 600	\$ 600	\$ 600	\$ 2,600	\$ 5,000
Travel Domestic					2,250	2,250
Travel Foreign						
Publication					150	150
Other Costs	500	1,000	500	500	100	2,600
Pending						
Indirect Costs						
<b>TOTAL:</b>	<b>\$ 1,100</b>	<b>\$ 1,600</b>	<b>\$ 1,100</b>	<b>\$ 1,100</b>	<b>\$ 5,100</b>	<b>\$ 10,000</b>

<b>Budget Breakdown:</b>	<b>Sub-Total</b>	<b>Total</b>
<b>SUPPLIES:</b>		
ASCC: Office/Printing Supplies	\$600	
COM: Office/Printing Supplies	\$600	
NMC: Office/Printing Supplies	\$600	
UOG: Office/Printing Supplies	\$600	
UH/CIPS: Computer Supplies	\$1,000	
UH/CIPS: Office/Printing Supplies	\$1,000	
UH: Office/Printing Supplies	\$600	
<b>TOTAL SUPPLIES</b>		<b>\$5,000</b>
<b>TRAVEL</b>		
<b>UH:</b>		
<b>Ag.Communicators in Education(ACE)</b>		
Airfare (HNL/Michigan/HNL)	\$1,500	
Travel Per Diem	\$600	
Ground Transportation	\$150	
<b>TOTAL TRAVEL</b>		<b>\$2,250</b>
<b>PUBLICATIONS:</b>		
UH: Reprinting ADAP pubs	\$150	
<b>TOTAL PUBLICATIONS</b>		<b>\$150</b>
<b>OTHER COSTS:</b>		
ASCC: Mailing/Fax	\$500	
COM: Mailing/Fax	\$1,000	
NMC: Mailing/Fax	\$500	
UOG: Mailing/Fax	\$500	
UH/CIPS: Bookloan	\$50	
UH/CIPS: Mailing/Fax	\$50	
<b>TOTAL OTHER COSTS</b>		<b>\$2,600</b>
<b>TOTAL BUDGET:</b>		<b>\$10,000</b>