

THE TWENTY-FOURTH LEGISLATURE
HAWAII STATE LEGISLATURE
APPLICATION FOR GRANTS & SUBSIDIES
CHAPTER 42F, HAWAII REVISED STATUTES

LOG NO. 20-0

Type of Grant or Subsidy Request:

GRANT REQUEST - OPERATING

GRANT REQUEST - CAPITAL

SUBSIDY REQUEST

"Grant" means an award of state funds by the legislature, by an appropriation to a specified recipient, to support the activities of the recipient and permit the community to benefit from those activities.

"Subsidy" means an award of state funds by the legislature, by an appropriation to a recipient specified in the appropriation, to reduce the costs incurred by the organization or individual in providing a service available to some or all members of the public.

"Recipient" means any organization or person receiving a grant or subsidy.

STATE DEPARTMENT OR AGENCY RELATED TO THIS REQUEST (LEAVE BLANK IF UNKNOWN):

STATE PROGRAM I.D. NO. (LEAVE BLANK IF UNKNOWN):

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual:

Bishop Museum
Db: Same

Street Address:

1525 Bernice Street, Honolulu, HI 96817

Mailing Address:

Same

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name: MICHAEL SHANAHAN

Title Education Director

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3. TYPE OF BUSINESS ENTITY:

NON PROFIT CORPORATION

FOR PROFIT CORPORATION

LIMITED LIABILITY COMPANY

SOLE PROPRIETORSHIP/INDIVIDUAL

7. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

TITLE: *HAWAIIAN HALL K-12 PROJECT*. THIS IS A PROGRAM TO DEVELOP A FULL SET OF EDUCATIONAL PROGRAMS AND SUPPORTING MATERIALS FOR BISHOP MUSEUM'S NEWLY RENOVATED HAWAIIAN HALL, TO OPEN IN SUMMER 2009.

4. FEDERAL TAX ID #:

[REDACTED]

5. STATE TAX ID #:

[REDACTED]

6. SSN (IF AN INDIVIDUAL):

[REDACTED]

8. FISCAL YEARS AND AMOUNT OF STATE FUNDS REQUESTED:

FY 2008-2009: \$200,000

9. STATUS OF SERVICE DESCRIBED IN THIS REQUEST:

NEW SERVICE (PRESENTLY DOES NOT EXIST)

EXISTING SERVICE (PRESENTLY IN OPERATION)

SPECIFY THE AMOUNT BY SOURCES OF FUNDS AVAILABLE AT THE TIME OF THIS REQUEST:

STATE \$200,000 (REQUESTED)

FEDERAL \$53,750

COUNTY \$ _____

PRIVATE/OTHER \$22,750

TYPE NAME & TITLE OF AUTHORIZED REPRESENTATIVE:

[REDACTED]

TIMOTHY E. JOHNS, PRESIDENT, DIRECTOR AND CEO
NAME & TITLE

1/31/08
DATE SIGNED

Hawaiian Hall K-12 Project
Grant in Aid Request
Bishop Museum
2008-2009 FY

I. Background and Summary

1. Brief description of applicant's background

Charles Reed Bishop founded the Bishop Museum in 1889 in honor of his late wife Bernice Pauahi Bishop, the great granddaughter of Kamehameha the Great. While it is a private, non-for-profit organization, Bishop Museum is also designated by Hawai'i legislation as the State of Hawai'i Museum of Natural and Cultural History. In addition to its principal campus in Kalihi, the Museum includes the Hawaii Maritime Center at Honolulu Harbor and the Amy B.H. Greenwell Ethnobotanical Garden in Captain Cook on the Island of Hawai'i.

Bishop Museum's mission, revised and approved by the Museum's Board of Directors in 1999, is to study, preserve, and tell the stories of the cultures and natural history of Hawai'i and the Pacific.

At the heart of Bishop Museum is the Hawaiian and Polynesian Hall complex, with priceless collections of Hawaiian and Pacific artifacts. The campus also includes the Richard T. Mamiya Science Adventure Center, which uses the hands-on approach typical of science centers worldwide to explore the science of the Hawaiian Islands. Castle Memorial Building "brings the world to Hawai'i" by featuring rotating exhibits on topics from chocolate to dinosaurs. The Watumull Planetarium, arguably the busiest medium-sized planetarium in the US, brings Hawaiian-based astronomy programs to about 100,000 people a year. Planetarium shows, storytelling programs, tours of the exhibit halls, and live geology presentations are just some of the presentations offered to the Museum's mix of school children, local visitors and tourists on a daily basis.

Annual attendance is approximately 330,000. Of these, about 35,000 are students who come to the Museum on field trips (preschool through 12th grade).

Bishop Museum is in the midst of a \$21 million renovation of the Hawaiian Hall complex, the Museum's primary exhibit space for Hawaiian history and culture. Hawaiian Hall closed for renovations in July 2006 and will re-open in June of 2009. Hawaiian Hall is being restored and renovated to provide museum-quality environmental conditions for the artifacts on display, and to comply with federal standards of accessibility. The completed renovation will allow for a greater display and rotation of delicate artifacts by controlling temperature, humidity, lighting, and

security. The new elevator system will ensure that the Hall is completely accessible to visitors with impaired mobility.

As part of the renovation project, the exhibits in Hawaiian Hall are being completely redesigned. Since 2006, Bishop Museum has been working with Ralph Appelbaum Associates in developing the restoration and exhibit plans for the Hall. Ralph Appelbaum Associates is a world-renowned museum planning and design firm whose credits include the U.S. Holocaust Memorial Museum in Washington D.C., the Heard Museum in Phoenix, Arizona, and renovations to the American Museum of Natural History in New York City.

For the first time in its century-long history, Hawaiian Hall will be completely dedicated to the culture, people and land of Hawai'i. The new Hawaiian Hall exhibits will reflect a special sensitivity to Hawaiian culture and will demonstrate a world-class approach to the presentation of cultural materials in contemporary museums. In place of the previous chronological approach to presenting information about Hawai'i, the new hall's exhibits will reflect a Hawaiian world view. The three separate floors will explore the world of the sea; the world of the land; and the world of the sky and ali'i. The overall theme for the renovated Hawaiian Hall exhibits will also emphasize the continuity of the people of Hawai'i from the past into the present. Visitors will see and experience the vitality of Hawaiian culture and community both past and present through objects, art, performance, sounds and voice.

2. Goals and objectives related to the request

With the renovated Hawaiian Hall as a unique educational tool, Bishop Museum has a special opportunity to create new programming for our 35,000 annual school visitors. The Museum's *Hawaiian Hall K-12 Project* will develop dynamic education programming to accompany the new exhibits and topics in Hawaiian Hall. Ten new school programs will be developed in all. All of these programs will be aligned to the Hawai'i Content and Performance Standards III (HCPS III). The program will incorporate Hawaiian-based learning strategies and include the object-based approach to the museum learning experience that has been successful in previous programs at the Museum. In addition, the Museum will work with community partners to develop appropriate programming.

Project Goals

- Establish a positive, object-based "museum experience" for grades K-12 based on the exhibits, themes and underlying messages of the renovated Hawaiian Hall.
- Provide a new suite of activities and programs related to Hawaiian history, culture, and values through the newly restored Hawaiian Hall.
- Meet the learning/teaching needs of teachers and students of Hawai'i by ensuring that all new programs are closely aligned HCPS III standards.
- Support the educators of Hawai'i through a full set of teacher support programs.

Project Objectives:

- Develop ten new school programs for Hawaiian Hall, with a particular emphasis on programs for grades 4, 7 and 9 (these grades have specific benchmarks for Hawaiian culture and history).
- Develop pre- and post-visit classroom activities to supplement each of the ten new onsite school programs. These lessons will be created with Hawai'i Department of Education teachers and other active classroom teachers and will be made available online.
- Subject all programs to rigorous evaluation in terms of content, educational effectiveness and standards alignment.
- Offer four teacher orientation workshops on the newly-developed Hawaiian Hall program for school visits.
- Support the onsite programming with Bishop Museum web sites that provide digital access to our collections and a full range of support materials for those collection items.

The requested grant will provide directed K-12 programs for the new Hawaiian Hall, and in so doing will provide increased access to the resources of the Bishop Museum for students and teachers. The project will allow the Museum to provide activities that fully support the DOE Hawai'i Content and Performance Standards, while simultaneously supporting the mission of the Museum ("to study, preserve and to tell the stories of the natural and cultural history of Hawai'i and the Pacific"). This request further emphasizes and reflects the educational priorities of the State, and will strengthen the Museum's partnership with the Hawai'i State Department of Education.

3. Public purpose and need to be served

Article X Section 4 of the Hawai'i State Constitution states:

The State shall promote the study of Hawaiian culture, history, and language.

The State shall provide for a Hawaiian education program consisting of language, culture and history in the public schools. The use of community expertise shall be encouraged as a suitable and essential means in furtherance of the Hawaiian education program.

The Bishop Museum serves to meet this purpose. The Museum's outstanding native Hawaiian and Hawai'i collections are the foundation for the Museum's core programs. Many of the collection items are types of artifacts found only at Bishop Museum. Hawaiian Hall's newly developed programs will serve as a resource as well as an experience for all Hawai'i's children. Effective as Hawaiian Hall has been in the past, the educational value of the Hall will significantly increase when the Hall reopens in June 2009.

The restored Hall will combine the Museum's world-class cultural collections with an interpretive approach that is grounded in the Hawaiian world-view. The exhibits, designed by Ralph Appelbaum Associates in collaboration with Bishop Museum staff and advisors, will focus on Hawaiian culture as a vibrant living tradition. The environmental controls that are being installed in the Hall will allow the Museum to double the number of artifacts on display at any one time, and to display artifacts that were too fragile to have been shown in the time before air conditioning.

With the new Hall will come a new suite of educational programs for visiting school groups. The new Hawaiian Hall education programs will maximize the educational potential of this dynamic new facility. Live educational programs can be precisely targeted to address particular benchmarks and standards with a much greater level of specificity than is possible with an exhibit. Programs will be designed with exact grade levels in mind. The new Hawaiian Hall programs will be key tools in the Museum's goal to better serve its education audiences. Of the projected annual 35,000 school visitors per year, at least 25,000 (a little over 70 per cent) will attend at least one of the new Hawaiian Hall programs during the first year of the new Hall (July 2009 – June 2010).

While the primary focus for this project is to develop the programs for school groups that visit Hawaiian Hall, there is also a critical need to provide access to the Bishop Museum's cultural resources to those teachers and students who cannot readily visit the Museum. This includes students and educators from the neighbor islands, and rural areas of O'ahu. These educational needs and the need for collections access will be met through both the existing Hawai'i ALIVE website (www.hawaiialive.org) and the materials that will be created in support of the *Hawaiian Hall K-12 Project*. Hawai'i ALIVE is specially design for teachers and features forty of the Museum's treasures, supplemented by various resources and an on-line teacher development module. The thematic development for Hawaiian Hall's exhibits is closely aligned to the Hawai'i ALIVE site design. Hawai'i ALIVE will be used in tandem with the Hawaiian Hall K-12 programs to increase access to the Museum's resources. (The design stage for Hawai'i ALIVE is finished and "official" announcement of the site will be made in the spring of 2008.)

Pre- and post-visit curricula material developed in support of our ten new Hawaiian Hall programs will be made available on the Bishop Museum's web site and will provide a coordinated and collaborative set of Hawaiian cultural educational materials to educators statewide. The estimated reach of this online component of the Hawaiian Hall programming is 600 teachers and 20,000 students per year.

4. Target population to be served

The target populations for the *Hawaiian Hall K-12 Education Project* are students in kindergarten through 12th grade, with the priority focus on the 4th, 7th and 9th grades. The most recently-completed school year, 2006-2007, provides a good snapshot of this attendance. Bishop Museum served 36,519 students on field trips during that year. 16,899 of these students (46 per cent) were from public schools, and the remaining 19,620 were from private schools (54 per cent).

In terms of public schools, there are 285 public schools in the State of Hawai'i. In the 2006-07 school year Bishop Museum serviced 144 of those 285 schools (50.5 per cent) through field trips to Bishop Museum. The 16,899 public school students who came to the Museum on field trips during that year represent 9.3 per cent of the total Hawai'i public school population of 181,000. Of those 16,899 public school students, 10,539 were from Title I schools (i.e. public schools in which at least half of the student population is on a free or reduced lunch program) and the remainder (6,360) were from non-Title I public schools.

The "center of gravity" for Bishop Museum school attendance falls in the elementary grades. Of the 35,519 students in the 2006-07 school year, 23,365 were elementary school students (grades 1 - 5).¹ Middle school students (grades 6 - 8) accounted for 4,278 of the attendees, and high school for 1,963. In addition, the Museum served 5,699 preschoolers and 1,702 kindergartners in the 2006-2007 year.

In addition to exhibit-exploration time, Bishop Museum provides specially-designed educational programs for all of these grade levels. These programs are student-focused and offer interactive learning experiences through objects, images and storytelling. Teachers select which programs they would like to attend based their students' interests and educational needs. There are forty programs ranging from planetarium shows to geology demonstrations to dramatic Hawaiian storytelling. The average program runs 30 to 45 minutes. Student attendance for all school educational programs at Bishop Museum for the 2006-2007 year was 62,000 (33,300 public school students; 28,700 private school students). The total attendance figure exceeds the total school field trip attendance number (36,519) because most students attend two programs during their visit.

The *Hawaiian Hall K to 12 Program* will augment the exhibit experience and provide a means of exploring Hawaiian culture from a Hawaiian world view and in more detail than the exhibits can provide. The *Hawaiian Hall K to 12 Program* will play a significant role in ensuring that the Bishop Museum school visit experience also assists the teachers in meeting the benchmark and standard targets that are an essential part of Hawai'i's public school education.

¹ This includes 18,563 elementary students and teachers on field trips, and 4,802 additional attendees for summer fun type programs.

A secondary target audience for the *Hawaiian Hall K to 12 Program* are the students who come to the Museum on sleepover programs. Students visiting the Museum with an organized school or community group camp overnight at the Museum in the Science Adventure Center. Approximately 2,000 students attend sleepover programs each year at the Museum. The new Hawaiian Hall programs will be an integral part of the sleepover experience.

5. Describe the geographic coverage

The vast majority of the 35,000 students who come to Bishop Museum on school visits each year are from O'ahu. Students come from all areas of O'ahu to the Museum, even though it means a long drive (e.g. from the Leeward coast). For example, the Museum served roughly 1,000 students from the Wai'anae coast on field trips in the 2006-07 year.²

It is important for Bishop Museum to reach all of the islands. Approximately 1,000 of the students who participated in school visits to Bishop Museum in the 2006-07 school year came from the Neighbor Islands. Neighbor Island schools included Moloka'i High School (November 2006) and Lāna'i Elementary and High School (May 2007).

The development of a web-based component to the Hawaiian Hall education programs will further extend the reach to the Neighbor Islands. The new classroom materials and or lessons on the Bishop Museum web site, developed primarily as pre- and post-visit activities for school groups but also usable as "stand alone" lessons, will reach approximately 600 teachers and 20,000 students who will use "virtual museum" experiences such as the Hawai'i ALIVE web site in lieu of an actual visit to Bishop Museum.

II. Service Summary and Outcomes

1. Scope of work, tasks and responsibilities

A. Scope of work – description of Hawaiian Hall programs

A key objective of this project is to create ten new educational programs for school children, grades K-12, that will enhance the educational effectiveness of the newly restored Hawaiian Hall. The program concepts are being worked out in 2007-2008. They will be developed and tested in 2008-2009, and will debut for school groups with the opening of Hawaiian Hall in June 2009.

² Attendance was 927 students for the 2006-07 school year. Schools that came to the museum included Nanaikapono Elementary; Nānākuli Elementary; Nānākuli High School; Wai'anae High School; and Kapolei Elementary, Middle, and High Schools.

The *Hawaiian Hall K-12 Project* will be based around the three main exhibit themes of the renovated Hawaiian Hall. These areas include:

- i. *Kai Ākea*, the world of watery origins and the gods;
- ii. *Wao Kanaka*, the realm of people and daily living,
- iii. *Wao Lani*, the realm of those closest to the gods, the *ali'i*

Through the *Hawaiian Hall K-12 Project*, the Museum will ensure that its school visitors will have a meaningful, grade-level appropriate experience in Hawaiian Hall.

This project will incorporate a collections- and object-based approach interpreting various exhibit components in the Hall through activities, stories, and replica objects. In addition, the new Hawaiian Hall K-12 program will incorporate Hawaiian culture-based learning strategies to deliver the material to the students.

Object-Based Learning Strategies

The Museum will incorporate its successful object-based learning strategies for this program. As noted earlier, this approach takes advantage of the Museum's vast collections and the stories, history, and culture that each item in the collection represents. With an objects-centered approach, Museum educators will bring collection items to life through storytelling and activities.

Hawaiian Learning Strategies

The five Hawaiian learning strategies that will be used in the *Hawaiian Hall K-12 Project* are based on an *ōlelo no'eau*, or Hawaiian saying, from Mary Kawena Pukui's *'Ōlelo No'eau*, published by Bishop Museum Press:

Nānā ka maka; ho'olohe ka pepeiao; pa'a ka waha.

Observe with the eyes; listen with the ears; shut the mouth.

Thus one learns.

This *'ōlelo no'eau* provides the foundation for five Hawaiian learning strategies:

- *Nānā ka maka*: The eye sees. The teacher will model the task, and the student will observe.
- *Ho'olohe ka pepeiao*: The ear listens. The teacher instructs the student to listen for the instructions and any other sounds that may help to clarify the task. Audio cues other than words may be used.
- *Pa'a ka waha*: Secure/shut the mouth. The teacher directs the student to be silent and process the information through this critical thinking stage.
- *Hana ka lima*: Put the hands to work. The teacher asks the student to mimic the demonstration, and observes the student's actions.

- *Nīnau*: Question. Questions may be asked only after the first four steps have been completed and repeated at least once. This is an opportunity for the teacher to send the student back to self-correct his or her own work.

These Hawaiian learning strategies reflect upon Hawaiian values central to the traditions and practices of the Hawaiian people and culture. These strategies have previously been successfully used in other educational programs, and will be applied to the current project as well.

Program components

The Hawaiian Hall K-12 project will consist of the following components.

- **School programs:** a total of ten new or fully revised education programs geared at grades K-12. Programs will be offered in Hawaiian Hall or in classrooms at the Museum. Programs will be designed for specific grade levels, with a strong emphasis on grades 4, 7 and 9 (the grades in which Hawaiian history and culture receives particular focus in the Hawai'i Department of Education).
- **Pre- and post-visit activities.** These are a series of classroom activities developed for each of the new onsite Hawaiian Hall programs. The activities will be available on the Bishop Museum education web site. The activities are designed to enhance the educational value of the school visits to Bishop Museum by allowing a teacher to prepare the students before the visit, and to follow up on the museum experience after their field trip. These on-line activities will also function as stand-alone classroom educational experiences for those teachers who cannot bring their students to the Museum. In such cases, the lessons will make use of the digital versions of Bishop Museum's cultural artifacts, available on Bishop Museum's Hawai'i ALIVE web site, in lieu of coming to the Museum on a school visit.
- **Teacher Workshops.** Four workshops will be offered per year. The workshops will provide Hawaiian Hall content background, activities to enhance a school visit to Hawaiian Hall, and an overview of the Bishop Museum's school visit programs.
- **Docent training.** Volunteers will be essential to the Hawaiian Hall experience and there will be at least two training sessions per year on the content and interpretive tools needed to be an effective volunteer in the Hall.
- **On-line support.** The Bishop Museum Education Page will include a wide range of on-line materials in one site, including access to all activity plans, exhibit guides and school visit information.

B. Scope of work - development process for Hawaiian Hall programs

Activity and Benchmark Development

In terms of program development for the new Hawaiian Hall programs, Bishop Museum will draw upon existing partnerships with the Hawai'i Department of Education Hawaiian Studies Unit, Hawai'i Pacific University, and Kamehameha Schools. Other educational partners will be sought. These education specialists and experts will work together with Museum educators to develop age-appropriate activities, using the Hawaiian-based learning strategies noted above, that can be used in the Hawaiian Hall K-12 programs.

Review of HCPS III Standards

Bishop Museum educators will consult with the Hawai'i Department of Education and others on standards in language arts, social studies, fine arts, math and science. Staff will focus on standards that are in alignment with the themes of the Hawaiian Hall K-12 program and can be taught using the Hawaiian learning strategies. These HCPS standards will provide the necessary benchmarks for the Hawaiian Hall K-12 programs.

C. Scope of work - program development

After the benchmarks have been selected for the groups and age-appropriate activities determined, Bishop Museum educators will work together with exhibit and collections staff to develop the K-12 programs that complement the new exhibits currently in development for Hawaiian Hall. The success of current K-12 programs, including the *Ola Nā Mo'olelo* Hawaiian Storytelling program and Science Adventure Center programming, provides a strong model for the development of new Hawaiian Hall K-12 programs. Staff will create new activities and modify current ones to meet the established benchmarks at each grade level and will incorporate both the Hawaiian cultural and object-centered learning strategies. Together, these activities will form a clear and coordinated K-12 program with the newly developed Hawaiian Hall as the content focus. Activities will reflect Hawaiian values and Hawaiian learning strategies, and utilize collection items on display together with replicas and objects that students can touch and feel.

In addition to the work of Museum staff, the Museum will seek out teachers in the field who will to collaborate on utilizing the activities in their classroom curriculum. Teachers will spend a summer working with staff and partners in developing unit and or lesson plans around the offerings. A follow-up workshop for teachers wishing to incorporate these lessons will be held prior to the opening of the renovated Hawaiian Hall.

Examples of possible activities include:

- Hands-on, interactive activities offered in conjunction with specific exhibits within the Hall;

- Grade-specific curricula provided to teachers for pre- and post-activities in conjunction with a visit to Hawaiian Hall;
- Take-home activity packets related to Hawaiian Hall that families can work through together following a visit to the Museum;
- New *Ola Nā Mo'olelo* dramatic storytelling programs that correspond with the objects on display and the exhibit themes of Hawaiian Hall; and
- Activities incorporating pull-out "touch" artifact drawers in some of the display cases and the Second Floor Resource Center in Hawaiian Hall.

The work in the 2008-2009 fiscal year will build upon the preliminary work that has been done in the 2007-2008 year under funding from the federal Department of Education.

D. Scope of work - tasks and responsibilities

Mike Shanahan, Education Director, will provide general project oversight. Rona Rodenhurst, Education Program Manager, will coordinate the overall development of Hawaiian Hall programs. Noelle Kahanu, also an Education Program Manager and the Education Department's primary representative on the Hawaiian Hall Exhibit Committee, will provide guidance on the content and design of Hawaiian Hall. Content support will also be provided by other members of the Hawaiian Hall team, including Dr. Elizabeth Tatar (Vice President for Strategic Initiatives), Betty Kam (Vice President, Cultural Resources), Desoto Brown (Bishop Museum Archives) and Dave Kemble (Senior Exhibit Designer).

Bishop Museum Cultural Educators (four staff), Science Educators (four staff) and other interpreter staff will assist with program concepting, testing, refining and delivery. These staff will be divided into teams to assist with various aspects of the project.

2. Projected annual timeline for accomplishing the goals of this service

I. 2007-2008 funding year (under funding from Federal Department of Education):

- Conduct teacher surveys and focus groups with educators regarding the topics and needs for Hawaiian Hall programming;
- Assemble education work teams and develop general plan for programs and topics;
- Create general outlines for the ten proposed programs.

II. 2008-2009 year:

July – September 2008:

- Finalize rough drafts of all ten programs;
- Present each program to a team of staff members for feedback on content and on educational value of the new program;

- Select Hawai'i Department of Education teachers and other teachers who will develop the pre- and post-visit classroom activities that will accompany the new Hawaiian Hall programs;
- Receive drafts of classroom lesson plans from the contracted teachers by September 2008;
- Send the *2008-2009 Education Guide to Exhibits and Programs* to all schools in September 2008, with a significant "coming attractions" preview of Hawaiian Hall's reopening and the related programs.

October – December 2008:

- Refine Hawaiian Hall programs based on feedback from the summer 2008 testing sessions;
- Present the draft programs again for feedback, this time to groups that include outside content experts and teachers;
- Develop, purchase, integrate props and other educational materials in to program testing;
- Have scripts reviewed by teachers and other educational experts for alignment to HCPS III.

January – March 2009:

- Test all new Hawaiian Hall programs with actual school groups at Bishop Museum;
- Administer evaluations on these programs to both the students and the teachers, to assess the educational impact and the standards alignment of each program;
- Revise programs based on feedback from the evaluation data;
- Deliver the first teacher workshop in this quarter.

April – June 2009:

- Finalize script for all programs;
- Train all of the staff who will present the programs throughout the quarter;
- Upload all activity plans on the Bishop Museum education web site, in preparation for the opening of the Hall and the start of school visits;
- Announce and begin school visit bookings for debut of the new school programs;
- Present the second teacher workshop is offered in this quarter;
- Open Hawaiian Hall, and its related programs, in June 2009.

3. Quality assurance and evaluation plans for the project

A. Quality Assurance

The Quality Assurance Plan began with the completion of the content and schematic plans for the Hawaiian Hall Exhibit by Ralph Appelbaum Associates. Other steps in the process:

- The Hawaiian Hall Exhibit Committee, comprised of cultural collections, exhibit, education and cultural specialists from the Museum, provided the Appelbaum plans to the Hawaiian Hall K-12 Project group.
- The Education Department's 17 staff members reviewed the Hawaiian Hall exhibit plans and completed three planning meetings (fall 2007).
- During the "working group" phase of the Hawaiian Hall K-12 Project, Education staff who are assigned to the different levels of the Hall will come up with the priority concepts for each of the *wao*/floors.
- Developmental level working groups will finalize grade level outlines and concepts.
- Community cultural specialists will be invited to comment on the general plan.
- The Hawaiian Hall Exhibit Committee will review for additional recommendations.
- Project partners and classroom teachers will comment and make recommendations.

B. Evaluation Plan

A teacher survey to assess teacher needs for a Hawaiian Hall program began in fall quarter 2008. On November 1, 2007, Bishop Museum hosted its annual Educator's Night and included tours of Hawaiian Hall under renovation as part of the evening. Bishop Museum surveyed roughly half of the 110 teachers who came that night, asking for their comments on what they would like to see in Hawaiian Hall programming. The general results included feedback that teachers "would like more interactive activities and other topic experiences. There is also a desire for Museum trips to meet other standard/ benchmarks needs." In terms of future use of Hawaiian Hall, the surveys indicated that the "highest priorities are for hands-on activities, demonstrations and story telling. Teachers were interested in professional development and or teacher workshops."

The surveying of educators will continue throughout the process. Bishop Museum staff will, for example, survey teachers at a one-day conference for Hawai'i Department of Education teachers in grades 4, 7 and 9 in March 2008. These are the primary grades that have specific benchmarks for Hawaiian Studies. Bishop Museum will survey this group in regards to the anticipated Hawaiian Hall programs. This will provide the teacher input into the program development in the priority program areas.

As an integral aspect of this program, Museum educators will develop a standardized, comprehensive education program evaluation tool for the K-12 programs to measure project effectiveness and visitor satisfaction. A recent evaluation of the Museum's education programs administered by Honolulu-based Pacific Resources for Education and Learning (PREL) will provide the structure for the evaluation tool. Data will be collected for all students who participate as a part of a scheduled school or program

visit, and pre- and post-tests will be administered to select groups based upon the project benchmarks to measure the effectiveness of the teaching methodology. Teacher surveys will also be collected after each visit. In addition, families who visit with their children and participate individually in the K-12 activities and programs will be sampled on a random basis to determine the effectiveness of the program for a family, outside of a structured school visit. Once complete, this new evaluation tool will be utilized by all of the Museum's education programs, to allow for direct comparison between programs and across years.

4. Measures of effectiveness

Bishop Museum will report back at the mid-point of the 2008-2009 year on the progress on program development during the 2008-09 year, and will provide a final report. The reports will also include the results of evaluations of the new programs conducted with students and teachers during the test runs of the new programming. Progress on the classroom lesson plans, standards alignment, teacher workshops and other aspects of the grant will also be reported.

III. Financial

The required budget documents are attached to this application.

The total request is for \$200,000, and this is the anticipated quarterly funding requirement for fiscal year 2008-2009:

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$45,000	\$45,000	\$55,000	\$55,000	\$200,000

IV. Experience and Capability

A. Necessary skills and experience

Bishop Museum has created full new sets of school programs, aligned to Hawai'i Content and Performance Standards (HCPS) III, on two recent occasions. In both cases, as with the Hawaiian Hall project, the new programming was driven by the opening of a new permanent exhibit at Bishop Museum.

First, in the last half of 2005 the Museum created a full new set of programs from the brand-new Richard T. Mamiya Science Adventure Center. A separate program was created for each grade level from K through 8, aligned to the HCPS III Standards. This was the Museum's first experience in creating a full set of programs aligned to the new standards. These programs are now attended by thousands of school children per year and are a key element of the Museum's field trip programming.

In the spring and summer of 2007, Bishop Museum developed a series of nine live school programs for Science on a Sphere (SOS). Created by the National Oceanic and Atmospheric Association (NOAA), SOS provides vivid global images of the earth and other planets on a six-foot sphere in the planetarium lobby. Bishop Museum was one of the first four museums and science centers in the nation to receive SOS under a NOAA Environmental Literacy Grant.

The grant also provided funds to develop a full set of supporting programs for the sphere. These include a new exhibit on global warming that now surrounds the sphere in the planetarium lobby, new public demonstrations, an evening lecture series, and nine new school programs. Bishop Museum created a new school program for every grade level from Kindergarten through 8th grade. Each program is aligned to HCPS III standards and benchmarks. The benchmarks to a large extent drove the topics. Since there are no applicable HCPS benchmarks in astronomy or earth sciences for grade 7, for example, the grade 7 program *Attack of the Giant Cell* uses the sphere to demonstrate cell biology.

The programs were developed by members of Bishop Museum's Science Education team. The programs were tested in the spring and summer of 2007. School groups were offered free admission for coming to the Museum and participating in the tests. Bishop Museum education staff, working with the project's external evaluator (Pacific Resources in Education and Learning) developed pre- and post-visit surveys for the students and teachers on each program. PREL then collated and assessed the data pulled from these surveys. In addition, PREL called teachers who had brought their classes to the test sessions and asked the teachers to assess the new programs in terms of effectiveness and standards alignment. PREL also reviewed all demonstration scripts and assessed them for standards-alignment.

All nine of these new programs were tested and finalized by the end of the grant period (September 30, 2007). The programs are now fully in place and have been featured prominently in the *Bishop Museum 2007-2008 Education Guide to Programs and Exhibits*. Titles include *Kids Space Quest* (Grade 1), *Here Comes the Sun* (Grade 2), *Where on Earth Are We?* (Grade 3), *Wonders of Water* (Grade 3), *Earth Extreme Makeover* (Grade 4), *Destination Solar System* (Grade 5), *Tsunami: Walls of Water* (Grade 6), *Attack of the Giant Cell* (Grade 7), and *Under the Weather* (Grade 8).

B. Facilities

Bishop Museum is located on 13 acres of land in lower Kalihi Valley. Its campus combines original, 19th century stone buildings, modern research facilities, a planetarium, an interactive science center, tropical gardens, and the activity-filled Great Lawn. The Museum has a total of 54,000-square feet of exhibit space. Of that area, approximately 41,000 square feet are dedicated to long-term exhibits and 13,000 square feet to temporary exhibits. The Museum's long-term exhibition galleries are devoted to

displays featuring the cultural and natural history of Hawai'i and the Pacific region. Hawaiian Hall is a masterpiece of Victorian museum architecture where the Museum's world-renowned collections are showcased. The J.M. Long Vestibule Gallery features the work of contemporary Native Hawaiian artists along with objects from our collections in a series of temporary exhibits. Polynesian Hall profiles the varied island cultures of Polynesia, Melanesia and Micronesia. The Hawaiian Hall Complex, closed in the summer of 2006 to begin restoration and improvements, funded in part by the State of Hawai'i, is scheduled to reopen in June 2009.

An essential aspect of the renovation of Hawaiian Hall is the installation of an elevator that will provide ADA access to all levels of both Hawaiian Hall and Polynesian Hall. For the first century, only the bottom floors of Hawaiian and Polynesian Halls were accessible to visitors of impaired mobility. With the opening of the elevator in fall 2007, all of Polynesian Hall became fully accessible. The new elevator courtyard also provided convenient access to the lower level of the Halls for the first time.

In January 2008 the Museum opened the restored Picture Gallery in the upper level of Polynesian Hall, with a small elevator to ensure ADA access to that gallery. All of Hawaiian Hall will be fully accessible when the Hall opens in 2009. With these renovations and the fully-accessible design of Castle Memorial Building, the Science Adventure Center and the planetarium, all of Bishop Museum exhibit areas are now ADA-compliant.

The new Hawaiian Hall programs will be presented in a range of facilities. Tours will be conducted in the Hall itself, with different-themed programs for each of the three floors. There are several classrooms that are dedicated to school programming on weekday mornings, and many of the new programs will take place in those locales. The new glassed-in atrium court, which houses the new elevator, will also be used for programming.

V. Personnel: project organization and staffing

A. Proposed staffing, staff qualifications, supervision and training

Bishop Museum is proud of its professional staff that is composed of accomplished individuals who represent Hawaii's rich multicultural heritage. The professional staff of executives, administrators, managers, scientists, technical and craft specialists are responsible for planning, development, and execution of goals and objectives that support the Museum's strategic plan. The Museum's new President is Tim Johns, who assumed the position of President and CEO in October of 2007.

The key staff involved in Bishop Museum's Hawaiian Hall K-12 Project are as follows:

Rona Rodenhurst, M.Ed, University of Hawai'i. Rona Rodenhurst worked for almost two decades at the Office of Hawaiian Affairs in such capacities as Senior Planner, Culture Officer and Education Officer. She was the Assistant Director and Instructor of Hawaiian Studies at the University of Hawai'i for seven years and was most recently the director of Waimea Valley Audubon Center.

Michael P. Shanahan, M.A., University of Washington, is Director of Education. He has extensive experience in Museum management, planetarium programming, and the delivery of science programs and is the former Visitor Education Manager from Pacific Science Center in Seattle. He joined the Museum in 1999.

Tom Cummings, Jr., B.S., Brigham Young University-Hawai'i, History and English, Teaching Certificate, is Manager of Cultural Education. Mr. Cummings is a specialist in educational programs and tours on Hawaiian culture. He has more than 30 years of experience as a developer, presenter and trainer of interpretive programs with emphasis on interactive and hands-on demonstrations, role-playing and interpretation of objects and specimens.

Noelle M.Y.K. Kahanu, B.A., J.D., University of Hawai'i, Political Science, William S. Richardson School of Law, is Program Manager and project director of the *Hawai'i ALIVE* project. Ms. Kahanu has managed several educational projects, including cultural outreach programs. She has also developed and coordinated the installation of several exhibits celebrating Native Hawaiian contemporary artists. She has been with the Museum since 1998.

Kealoha Kelekolio, Cultural Education Specialist. Mr. Kelekolio delivers both on-site and outreach school programs as well as daily public programs at the Museum. Mr. Kelekolio is a Hawaiian language speaker and an accomplished hula dancer and musician.

Anne Lokomaika'i Lipscomb, Cultural Education Specialist. Ms. Lipscomb delivers both on-site and outreach school programs as well as daily public programs and tours at the Museum. She holds a B.A. in Creative Writing & Performing Arts, an M.A. in Dance Ethnology, and is a Hawaiian language speaker.

Shawn White, Science Education Manager. Ms. White supervises the science education unit of the Museum's Education department. She is responsible for the management, oversight and implementation of the Museum's science education programs. She holds her M.A. in Anthropology and is a Hawaiian language speaker.

B. Organization chart

The Bishop Museum organization chart is attached. (See Attachment 1)

VI. Other

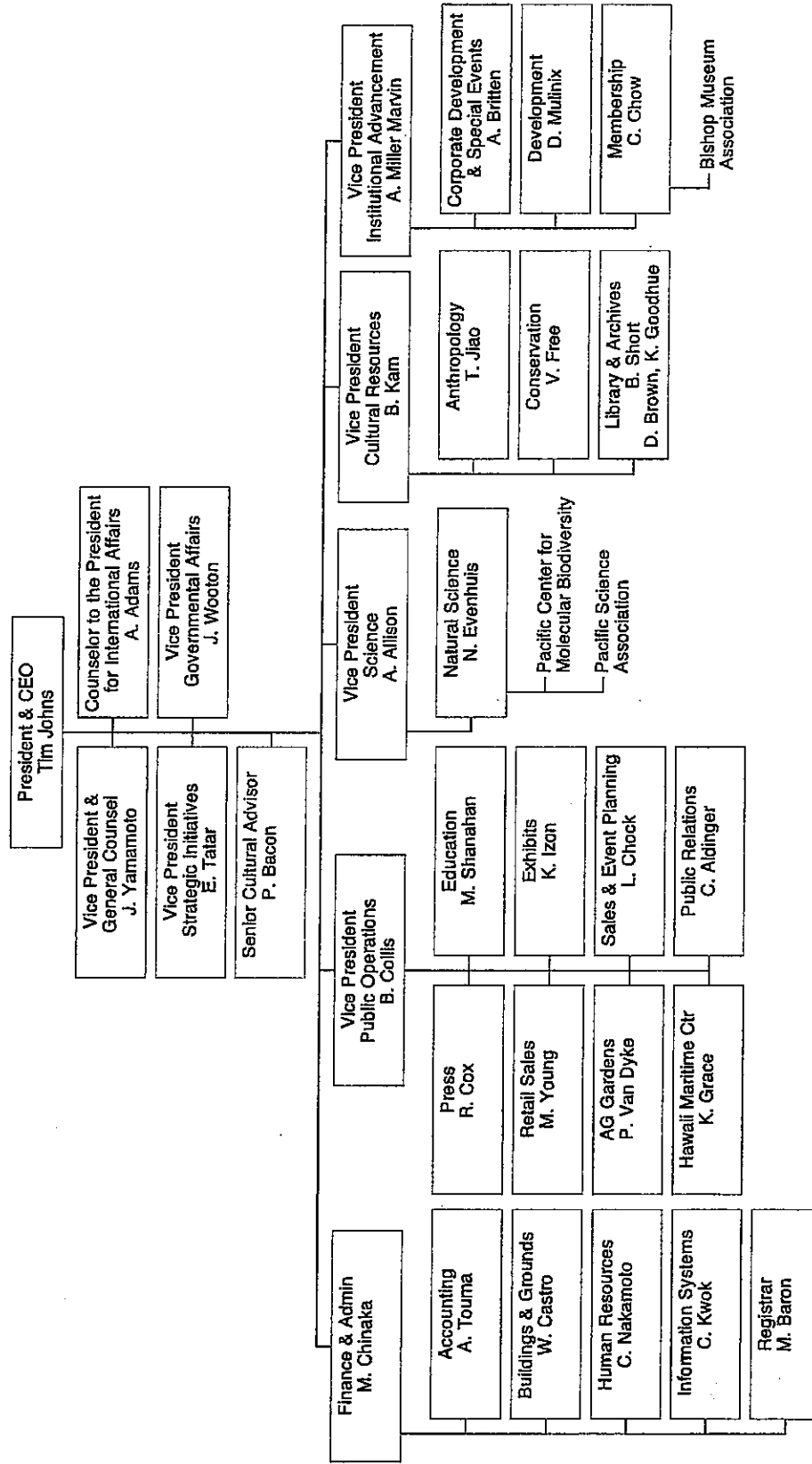
A. Litigation

Bishop Museum and Austin-Fairbanks Land Trusts were co-owners of the office building known as King's Court, which is located at 12 South King Street, Honolulu, Hawaii (the "Property"). In January 2008, Fireman's Fund Insurance Company ("Plaintiff"), as the provider of business property loss insurance to one of the former lessees of the Property, filed a civil suit against Bishop Museum and Austin-Fairbanks (collectively "Defendants") seeking the recovery of damages in the amount of \$14,180.78, which was paid by Plaintiff to the lessee for damages incurred on our about March 19, 2006 due to flooding. The suit is in its infant stages, and the parties are working towards settling the dispute

B. Licensure or Accreditation


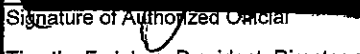
Bishop Museum is accredited by the American Association of Museums.

Bishop Museum Organizational Chart, FY 2008



BUDGET REQUEST BY SOURCE OF FUNDS
(Period: July 1, 2008 to June 30, 2009)

Applicant: Bishop Museum

BUDGET CATEGORIES	Total State Funds Requested (a)	(b)	(c)	(d)
A. PERSONNEL COST				
1. Salaries	80,000	35,000	15,000	
2. Payroll Taxes & Assessments				
3. Fringe Benefits	36,000	15,750	6,750	
TOTAL PERSONNEL COST	116,000	50,750	21,750	
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island	1,000			
2. Insurance				
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies	38,000	3,000	1,000	
7. Telecommunication				
8. Utilities				
9. Contracts with classroom educators	45,000			
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
TOTAL OTHER CURRENT EXPENSES	84,000	3,000	1,000	
C. EQUIPMENT PURCHASES	0			
D. MOTOR VEHICLE PURCHASES	0			
E. CAPITAL	0			
TOTAL (A+B+C+D+E)	200,000	53,750	22,750	
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	200,000	MIKE SHANA HAN		
(b) Federal Funds	53,750	Name (Please print)  Phone 1/6/08		
(c) Private Foundations	22,750	Signature of Authorized Official  Date		
(d)		Timothy E. Johns, President, Director and CEO		
TOTAL REVENUE	276,500	Name and Title (Please type or print)		

BUDGET JUSTIFICATION PERSONNEL - SALARIES AND WAGES

Applicant: Bishop Museum

Period: July 1, 2008 to June 30, 2009

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME BUDGETED TO REQUEST B	TOTAL SALARY BUDGETED IN REQUEST A X B
Education Program Manager I	0.2	\$50,000.00	20.00%	\$ 10,000.00
Education Program Manager II	0.05	\$54,000.00	5.00%	\$ 2,700.00
Culture Education Manager	0.1	\$51,000.00	10.00%	\$ 5,100.00
Cultural Educator I	0.4	\$37,000.00	40.00%	\$ 14,800.00
Cultural Educator II	0.4	\$36,000.00	40.00%	\$ 14,400.00
Cultural Educator III	0.4	\$37,000.00	40.00%	\$ 14,800.00
Science Educator I	0.1	\$37,000.00	10.00%	\$ 3,700.00
Science Educator II	0.1	\$39,000.00	10.00%	\$ 3,900.00
Science Educator III	0.1	\$37,000.00	10.00%	\$ 3,700.00
Education Specialist	0.15	\$31,000.00	15.00%	\$ 4,650.00
Science Education Manager	0.05	\$45,000.00	5.00%	\$ 2,250.00
				\$ -
				\$ -
				\$ -
TOTAL:				80,000.00
JUSTIFICATION/COMMENTS: Education Program Manager I (Rona Rodenhurst) manages overall project. Education Program Manager II (Noelle Kahanu) provides content. Program is created, tested, delivered by a team of Cultural Educators, Science Educators and Specialists.				

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Applicant: Bishop Museum

Period: July 1, 2008 to June 30, 2009

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
None			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:			\$ -	0
JUSTIFICATION/COMMENTS:				

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
None			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:			\$ -	0
JUSTIFICATION/COMMENTS:				

**BUDGET JUSTIFICATION
CAPITAL PROJECT DETAILS**

Applicant: Bishop Museum

Period: July 1, 2008 to June 30, 2009

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ANY OTHER SOURCE OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED		FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2005-2006	FY: 2006-2007	FY:2007-2008	FY:2008-2009	FY:2009-2010	FY:2010-2011
PLANS						
LAND ACQUISITION						
DESIGN				200,000		
CONSTRUCTION						
EQUIPMENT						
TOTAL:				200,000		
JUSTIFICATION/COMMENTS:						

**DECLARATION STATEMENT
APPLICANTS FOR GRANTS AND SUBSIDIES
CHAPTER 42F, HAWAII REVISED STATUTES**

The undersigned authorized representative of the applicant acknowledges that said applicant meets and will comply with all of the following standards for the award of grants and subsidies pursuant to section 42F-103, Hawaii Revised Statutes:

- (1) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant or subsidy is awarded;
- (2) Comply with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
- (3) Agree not to use state funds for entertainment or lobbying activities; and
- (4) Allow the state agency to which funds for the grant or subsidy were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and assuring the proper expenditure of the grant or subsidy.

In addition, a grant or subsidy may be made to an organization only if the organization:


- (1) Is incorporated under the laws of the State; and
- (2) Has bylaws or policies that describe the manner in which the activities or services for which a grant or subsidy is awarded shall be conducted or provided.

Further, a grant or subsidy may be awarded to a non-profit organization only if the organization:

- (1) Has been determined and designated to be a non-profit organization by the Internal Revenue Service; and
- (2) Has a governing board whose members have no material conflict of interest and serve without compensation.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

Bishop Museum
(Typed Name of Individual or Organization)



(Signature)

Timothy E. Johns

(Typed Name)

1/31/08

(Date)

President, Director and Chief Executive Officer

(Title)