


Application Submittal Checklist

The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

- 1) Hawaii Compliance Express Certificate (if the Applicant is an Organization)
- 2) Declaration Statement
- 3) Verify that grant shall be used for a public purpose
- 4) Background and Summary
- 5) Service Summary and Outcomes
- 6) Budget
 - a) Budget request by source of funds (L28)
 - b) Personnel salaries and wages (L28)
 - c) Equipment and motor vehicles (L28)
 - d) Capital project details (L28)
 - e) Government contracts, grants, and grants in aid (L28)
- 7) Experience and Capability
- 8) Personnel: Project Organization and Staffing


Christopher Wang, Executive Director 4/19/24

THE THIRTIETH LEGISLATURE
APPLICATION FOR GRANTS
CHAPTER 407, HAWAII REVISED STATUTES

Type of Grant Requested

Operating Capital

Legal Name of Requesting Organization or Individual: One

Amount of State Funds Requested: \$25,000

Best Description of Request (Please attach your document to back of page if extra space is necessary)
Hawaii Defense and Technology Museum is requesting capital funding for equipment to advance our national
awareness program to create new tech jobs on Hawaii island. As a nonprofit organization we feel it our duty to not
only provide STEM education, but to also help create more STEM industry jobs here on Hawaii island, particularly in the
State of enterprise and research.

Amount of Other Funds Available

State: \$
Federal: \$
County: \$
Private/Other: \$100,000

Total amount of State Grants Received in the Past 5
Fiscal Years

\$50,000 (Through Hawaii Comm Found)
Unexpended Awards
\$100,000

New Service (Previously Does Not Exist) Existing Service (Previously In Operation)

Type of Business Entity

Not-for-Profit Corporation
 Other Not-Profit
 Other

Mailing Address

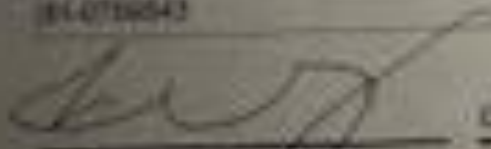
704 Hale Mauna St.
City State Zip
Hilo HI 96720

Contact Person for Matters Involving This Application

Name Christian Wong	Title Executive Director
Email christian@hawaiidefensemuseum.org	Phone 808-934-3733

Federal Tax ID#
81-0716043

State Tax ID#
190-239 1003-01


Authorized Signature

Christian Wong, Executive Director
Name and Title

1/19/24
Date Signed



STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document provides the compliance status of the vendor identified below on the cover page with respect to conditions required from the Hawaii Department of Taxation (DOXT), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: HAWAII SCIENCE AND TECHNOLOGY MUSEUM

Issue Date: 12/15/2014

Status: Compliant

Formal List
 Non-Formal List: (S-1001000000)
 Acquisition: (S-121100)
 ID: (S-10000)
 IDV #/IDV #: (S-100)

Status of Compliance for the Vendor on cover page:

Item	Department	Status
101	Hawaii Department of Taxation	Compliant
102	Internal Revenue Service	Compliant
103	Hawaii Department of Commerce and Consumer Affairs	Compliant
104	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Compliant	The entity is compliant with the requirements.
Non-compliant	The entity is non-compliant with the requirements or the entity is in agreement with applicable entities meeting pending compliance.
Pending	The entity is currently in compliance with the requirements.
Under Review	The entity has applied for the certification but is currently under review.
Not Applicable	The entity is exempt from compliance with the requirements and should indicate the pending status for more information.


DECLARATION STATEMENT OF
APPLICANTS FOR GRANTS PURSUANT TO
CHAPTER 429, HAWAII REVISED STATUTES

The undersigned authorized representative of the applicant certifies the following:

- 1) The applicant asserts and will comply with all of the following conditions for the award of grants pursuant to Section 429-10A, Hawaii Revised Statutes:
 - a) It is licensed or permitted, in accordance with federal, state, or county statutes, rules, or regulations, to conduct the activities or provide the services for which a grant is awarded.
 - b) Complies with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, marital status, or disability.
 - c) Agrees not to use state funds for entertainment or lobbying activities, and
 - d) Allows the state agency to which funds for the grant were appropriated to expeditiously, 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 ensuring the proper expenditure of the grant.
- 2) If the applicant is an organization, the applicant asserts the following requirements pursuant to Section 429-10B, Hawaii Revised Statutes:
 - a) It is incorporated under the laws of the State; and
 - b) Has bylaws or policies that describe the manner in which the activities or services for which a grant is awarded shall be conducted or provided; and
- 3) If the applicant is a non-profit organization, it asserts the following requirements pursuant to Section 429-10C, Hawaii Revised Statutes:
 - a) It is determined and designated to be a non-profit organization by the Internal Revenue Service; and
 - b) Has a governing board whose members have no material conflict of interest and none without compensation.
- 4) The use of grant to aid funding complies with all provisions of the Constitution of the State of Hawaii (for example, provided in Article X, section 1, of the Constitution, the State cannot provide "... public funds ... for the support or benefit of any religious or non-religious private educational institution...").

Pursuant to Section 429-10E, Hawaii Revised Statutes, for grants used for the acquisition of land, when the organization discontinues the activities or services on the land acquired for which the grant was awarded and disposal of the land in the manner or by terms, the organization shall negotiate with the appropriate agency for a long-term or continuous requirement to the State of the amount of the grant used for the acquisition of the land.

Further, the undersigned authorized representative certifies that the statements are true and correct to the best of the applicant's knowledge.

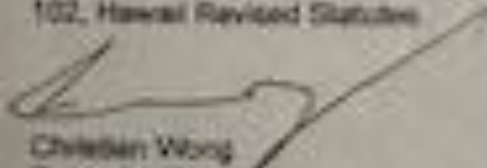
Hawaii Science and Technology Museum
(Typed name of individual or organization)


Christopher Wang
(Typed name)
1/19/2011

Executive Director
(Typed name)
Application for Grants

Public Purpose 1/19/24

The Hawaii Science and Technology Museum, a 501(c)(3) nonprofit serving the people of Hawaii, specifies the grant will be used for a public purpose pursuant to Section 42F-102, Hawaii Revised Statutes



Christian Wong
Executive Director

Applicant Background: The Hawaii Science and Technology Museum, a notable 501c3 nonprofit organization, has established itself as a pivotal educational institution on Hawaii Island. Specializing in Science, Technology, Engineering, and Mathematics (STEM) education and workforce development programs, HSTM has an impressive outreach, engaging approximately 20,000 individuals annually across Hawaii Island.

Goals and Objectives: HSTM seeks \$50,000 in capital funds to enhance its research and development laboratory. This investment is aimed at fostering the growth of STEM industry jobs on Hawaii Island, with a particular emphasis on aerospace and biotechnology sectors. The objective is to leverage these funds to stimulate job creation and promote advanced industry development within the local community.

Public Purpose and Need: The request serves a dual public purpose. Firstly, it supports the continuation and expansion of HSTM's educational and workforce development programs. Secondly, it focuses on the creation of STEM industry jobs. This initiative is crucial for the ongoing development and sustenance of the local economy and educational landscape.

Target Population: The primary beneficiaries of this initiative are high school and college-aged adults residing on Hawaii Island. The focus is to retain local talent by providing them with viable career opportunities in STEM fields. This approach is aimed at building a sustainable community where families can thrive, and local talent can flourish in STEM careers.

Geographic Coverage: The geographical focus of this initiative is Hawaii Island, with special attention given to rural and underserved areas. The objective is to ensure that the benefits of this program are distributed equitably across the island, thereby maximizing its impact on the community as a whole.

In summary, this request by HSTM represents a strategic investment in Hawaii Island's future, targeting educational enhancement, job creation, and community sustainability through a focused expansion in STEM-related fields.

Scope of Work, Tasks, and Responsibilities:

Development of R&D Lab: Expanding the research and development laboratory with necessary equipment aimed at aerospace and biotechnology applications. This includes procurement and installation of equipment, training staff, and setting up safety protocols.

Program Development and Delivery: Designing and implementing educational programs and workshops that align with STEM workforce development, particularly in aerospace and biotechnology.

Outreach and Engagement: Conducting outreach programs to attract high school and college-aged individuals, focusing on underserved and rural communities on Hawaii Island.

Partnership Building: Establishing partnerships with local industries, educational institutions, and community organizations to enhance program reach and effectiveness.

Projected Annual Timeline:

Q1-Q2: Finalizing equipment procurement, completing laboratory setup, and staff training.

Q3: Launching new educational programs and workshops, beginning intensive outreach efforts.

Q4: Evaluating initial program impact, adjusting curriculum and outreach strategies as needed.

Ongoing: Continuous monitoring, evaluation, and refinement of programs and outreach efforts.

Quality Assurance and Evaluation Plans:

Monitoring: Regular monitoring of program implementation, including participant feedback, staff reports, and equipment usage.

Evaluation: Conducting bi-annual evaluations to assess educational impact, workforce development outcomes, and community engagement. This will involve surveys, interviews, and data analysis.

Improvement: Utilizing evaluation outcomes to refine programs, adjust strategies, and improve overall effectiveness. This includes updating equipment and training methodologies based on technological advancements and industry needs.

Measures of Effectiveness:

Participant Engagement: Number of participants in educational programs and workshops, with a focus on target demographics.

Job Creation: Number of participants securing STEM jobs or creating locally owned and operated startups, particularly in aerospace and biotechnology sectors.

Community Impact: Assessments of local community development and sustainability, including feedback from community leaders and partners.

Educational Outcomes: Improvement in STEM skills and knowledge among participants, measured through pre- and post-program assessments.

Budget:

2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2025:
QTR1 \$25,000 QTR2 \$15,000 QTR3 \$10,000 QTR4 \$0

1. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2025: Private Donation \$300,000 (secured), Hawaii Community Foundation \$100,000

4. The applicant shall provide a listing of all state and federal tax credits it has been granted within the prior three years. Additionally, the applicant shall provide a listing of all state and federal tax credits they have applied for or anticipate applying for pertaining to any capital project, if applicable.

N/A

5. The applicant shall provide a listing of all federal, state, and county government contracts, grants, and grants in aid it has been granted within the prior three years and will be receiving for fiscal year 2025 for program funding.

N/A

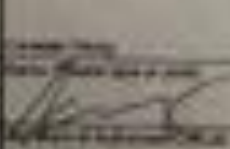
6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2023.

\$150,000

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2024 to June 30, 2025

Applicant: Henri Science and Technology Museum

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
A. PERSONNEL COST				
1. Salaries				\$0.000
2. Health, Travel & Allowances				1,000
3. Fringe Benefits				500
TOTAL PERSONNEL COST				\$1,500
B. OTHER CURRENT EXPENSES				
1. Admin. Expenses				
2. Materials				1,000
3. Support/Travel of Personnel				
4. Support/Travel of Other				10,000
5. Staff Training				
6. Supplies				1,000
7. Transportation				
8. Utilities				1,000
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
TOTAL OTHER CURRENT EXPENSES				\$14,000
C. EQUIPMENT PURCHASES	10,000			
D. CAPITAL AND/OR MAINTENANCE				
E. OTHER				
TOTAL (A+B+C+D+E)	10,000			15,500
SOURCES OF FUNDING			Budget Prepared by:	
(a) Total State Funds Requested	10,000		 Date: <u>8/19/24</u>	
(b) Total Federal Funds Requested	0		Title: <u>Director</u>	
(c) Total County Funds Requested	0		Title: <u>Director</u>	
(d) Total Private/Other Funds Requested	15,500		Title: <u>Director</u>	
TOTAL BUDGET	155,500		Title: <u>Director</u>	
	100,000		Title: <u>Director</u>	

Department of Science and Technology Museum

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

Contracts Type

1	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY U.S. Department of Health and Human Services State Contract	CONTRACT VALUE
2					
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35					

Necessary Skills and Experience

Hawaii Science and Technology Museum (HSTM) possesses a robust set of skills, abilities, knowledge, and experience pertinent to the request, as evidenced by its track record and accomplishments:

Experience in Aerospace Projects:

HSTM has demonstrated significant expertise in aerospace technology through its successful collaboration with Mahina Aerospace. This partnership led to the design, construction, testing, and launching of a CubeSat, showcasing HSTM's capacity in complex aerospace projects.

The involvement of Mahina Aerospace, a locally and indigenous female-owned aerospace company, in this project again, highlights HSTM's commitment to inclusive and collaborative community-based projects in the field of aerospace technology.

Biotechnology Training Programs:

HSTM has successfully conducted training programs for 20 individuals in the Hawaii Island community, focusing on biotech lab techniques. This initiative underscores HSTM's capability in biotechnology education and workforce development.

The continuation of these training programs indicates a sustained commitment to enhancing biotech skills within the community, aligning with the goals of creating a skilled workforce in this sector.

Operation of a Research and Development Laboratory:

HSTM currently operates a specialized research and development laboratory. This facility is equipped for 21st-century fabrication techniques, electronics, and programming applications, providing a strong foundation for the proposed expansion.

The lab's focus on cutting-edge technology and its successful operation demonstrate HSTM's ability to manage and sustain sophisticated STEM facilities.

Verifiable Experience of Related Projects (Most Recent Three Years):

CubeSat Project with Mahina Aerospace:

Year: 2020-2021

Scope: Design, construction, testing, and launching of a small satellite.

Outcome: Successful launch and operation, demonstrating capabilities in aerospace project management and execution.

Biotech Lab Techniques Training:

Years: 2023-2024

Scope: Training programs for community members in biotechnology lab techniques.

Outcome: Successfully trained 20 individuals, with ongoing programs scheduled.

Research and Development Lab Operations:

Years: 2020-2024

Scope: Management and operation of a lab focusing on modern fabrication techniques, electronics, and programming.

Outcome: Establishment of a fully functional lab, contributing to local STEM education and workforce development.

This history of successful projects and initiatives clearly demonstrates that HSTM possesses the necessary skills, experience, and knowledge to effectively undertake and manage the proposed project. The partnership with Mahina Aerospace further reinforces HSTM's capability to collaborate with industry leaders and integrate indigenous and local perspectives into its programs.

Current Facilities Description:

HSTM currently operates out of a 2000 square foot laboratory space that is specifically designed to accommodate a diverse range of activities, including fine electronics, biotechnology, and heavy fabrication. This space includes:

Fine Electronics Area: Equipped with tools and machinery for precision electronic work including diagnostic equipment.

Biotechnology Section: Features a safe working environment with biosafety cabinets, incubators, and essential lab equipment suitable for molecular biology and biochemical research.

Fabrication Zone: Contains robust equipment such as a drill press, 3D printers, welding apparatus, and other heavy-duty tools required for larger-scale fabrications.

Demonstration of Adequacy:

The lab's design and equipment have been instrumental in HSTM's successful operation since 2020. During the COVID-19 pandemic, the lab's versatility allowed for rapid pivoting to meet community needs, including the development and fabrication of essential items. The lab's layout facilitates a seamless workflow between different project stages, from conceptualization in the electronics area to prototyping in the fabrication zone.

Proposed Staffing Pattern and Service Capacity:

HSTM plans to deploy a multidisciplinary team to meet the demands of the project. Our staffing pattern is designed to optimize service capacity, ensuring efficient allocation of resources and expertise. The team will include project managers, engineers (in the fields of electronics, computer programming, and fabrication), as well as administrative and support staff. This structure allows HSTM to handle projects of varying sizes and complexity, including specialized tasks such as CubeSat design, fabrication, testing, and launch.

Staff Qualifications and Experience:

Project Management: Our project managers have extensive experience in overseeing complex projects, demonstrated by thousands of hours managing diverse projects and ensure projects are completed on time, within budget, and to high-quality standards.

Fabrication and Electronics Engineers: The engineering team from Mahina Aerospace brings a wealth of experience in fabrication and electronics, crucial for hands-on tasks. Their expertise has been instrumental in past projects, particularly in specialized areas like CubeSat development.

Computer Programmers: Skilled in multiple programming languages and systems, our computer programmers have been pivotal in software development for various applications, contributing to both the design and implementation phases of projects.

Support Staff: Includes experienced administrative personnel, technicians, and logistics coordinators, ensuring smooth operation and support of the project teams.

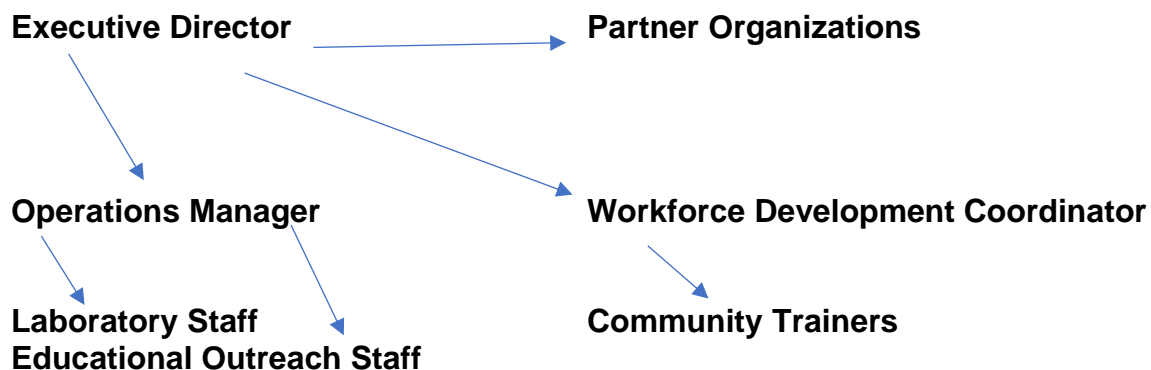
Training: Continuous professional development is a cornerstone of our strategy. HSTM invests in regular training programs to keep our team up-to-date with the latest technologies and methodologies in their

respective fields. This includes both in-house training sessions and external professional development opportunities.

Administrative Direction: Our administrative team employs proven strategies in resource management, risk assessment, and strategic planning. This ensures that the project aligns with organizational objectives while adapting to changing conditions and challenges.

2. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/supervision. If the request is part of a large, multi-purpose organization, include an organization chart that illustrates the placement of this request.



3. Compensation

The applicant shall provide an annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, not employee name.

Executive Director: \$60,000

Operations Manager \$20,000

Workforce Development Coordinator \$7000

Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

N/A

2. Licensure or Accreditation

The applicant shall specify any special qualifications, including but not limited to licensure or accreditation that the applicant possesses relevant to this request.

N/A

3. Private Educational Institutions

The applicant shall specify whether the grant will be used to support or benefit a sectarian or non-sectarian private educational institution. Please see [Article X, Section 1, of the State Constitution](#) for the relevance of this question.

N/A

Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2024-25 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2024-25, but
- (b) Not received by the applicant thereafter.

HSTM has an experienced and successful grant writing team that annually brings in approximately \$300,000 through delivery of effective programs in the community and retaining good relationships with grant making organizations and private donors. We feel confident that we can continue this project without any further State funding.