House District _Statewide___

Senate District _Statewide_____

THE TWENTY-EIGHTH LEGISLATURE
APPLICATION FOR GRANTS
CHAPTER 42F, HAWAII REVISED STATUTES

Log No:

For Legislature's Use Only

Type of Grant Request:

☒ GRANT REQUEST – OPERATING ☐ GRANT REQUEST – CAPITAL

"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.

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

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:

HAWAII SCIENCE AND TECHNOLOGY EDUCATION, LLC.

Dba:
n/a

Mailing Address:
Street Address: 841 Bishop St., Suite 1110, Honolulu, HI 96813

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name ERIC SCHIFF

Title President

Phone # 808-478-7014

Fax # 808-523-7668

E-mail eschiff5@gmail.com

3. TYPE OF BUSINESS ENTITY:

☐ NON-PROFIT CORPORATION INCORPORATED IN HAWAII
☐ FOR PROFIT CORPORATION INCORPORATED IN HAWAII
☒ LIMITED LIABILITY COMPANY
☐ OTHER
☐ SOLE PROPRIETORSHIP/INDIVIDUAL

6. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

SUPPORT FOR STEM EDUCATION BY PLANNING, COORDINATING, CONDUCTING THE ROBOTX 2016 INTERNATIONAL ROBOTICS CHALLENGE COMPETITION IN HONOLULU, HI TO INCLUDE OUTREACH STATEWIDE TO SCHOOLS, COLLEGES AND STUDENT ROBOTICS GROUPS.

4. FEDERAL TAX ID #: [redacted]

5. STATE TAX ID #: [redacted]

7. AMOUNT OF STATE FUNDS REQUESTED:

FISCAL YEAR 2016: $ 949,870

8. 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 $ 949,870
FEDERAL $
COUNTY $
PRIVATE/OTHER $

TYPE [redacted]

ERIC SCHIFF, PRESIDENT
NAME & TITLE

JANUARY 30, 2015
DATE SIGNED

RECEIVED
1-30-15

I. Background and Summary

1. Applicant's Background;

Hawaii Science and Technology Education, LLC (HSATE) is organized in the State of Hawaii with the mission to advance science, technology, engineering and math (STEM) education and disciplines in Hawaii. With the future becoming ever more dependent on high-tech including the rapid rise in robotics, the challenge of developing solid technical exposure and valuable real-world experience is limited in Hawaii. HSATE provides programmatic support, thematic guidance, event planning, and logistics coordination for STEM competitions and robotics challenges in Hawaii.

Having and affiliation with the Office of Naval Research (ONR) and other companies in Hawaii who have contracted with ONR, provides HSATE the resources to tap the existing community of science and engineering talent to support its mission. Further, HSATE is associated with the Association for Unmanned Vehicle Systems International Foundation (AUVSI Foundation). The AUVSI Foundation is a 501(c)(3) charitable organization that uses hands-on robotic programs to engage students of all ages and encourage them to pursue a career in robotics, engineering or any similar technological field. The Foundation has programs for K-12 and University students. The Foundation's robotic competitions challenge students to apply engineering skills in the development of robotic ground, air and maritime vehicles. Since 1991, the AUVSI Foundation has awarded nearly $1 million in prize money to participating schools.

2. The goals and objectives related to the request;

The requested funding is for Hawaii to host a robotic competition in 2016. "RobotX 2016 – Hawaii" is a follow-on competition to the very successful, inaugural "RobotX 2014 – Singapore". RobotX participants, which include select teams from around the Pacific Rim, are provided a 15' long catamaran that they are required to fully equip with sensors and onboard computing systems to make the boat a fully autonomous robotic vehicle. The competitors' boats are required to complete a series of tasks that are comparable to what commercially developed robotics boats are being designed to do. Given the marine surroundings of Hawaii, it is expected that robotic boats could become an important technological and economic component for the Hawaiian Islands. The exposure to this event and the technology would introduce and excite Hawaiian students to the marine aspect and the general robotics field.

The RobotX 2016 competition will require competing teams to; field and compete their robotic vehicle (existing basic craft provided), conduct a formal design presentation to judges, establish and maintain a team website, and produce a formal journal paper to be published on the RobotX website.

3. The public purpose and need to be served;

This competition will showcase Hawaii as a prime resource for robotics excellence and all the benefits of the Hawaii ocean environment for technical development of unmanned marine vehicles. RobotX could become a catalyst for Hawaiian students to consider and pursue studies and careers in robotics. In addition to exposure to the competition, students will be introduced to a robotic kit called SeaPerch. We will incorporate hands-on activities for students and the public into the implementation of RobotX 2016. With media coverage, promotion in schools and

spectator-friendly support, we intend to make RobotX a major event in Hawaii, and globally, in 2016.
RobotX 2016 will reach out for coordination with Hawaii State Department of Education STEM activities, school robotics clubs and groups, and include the non-profit Hawaii Society for Technology in Education – a local supporter of robotics competitions and conferences.

4. Describe the target population to be served;

The target population to be served includes; Hawaii state K-12 and college students. The competition in RobotX 2016 is primarily for college students given the sophistication of the robotic systems but as previously stated, with robotics growing in popularity and interest we will reach out to students of all ages to learn from and share in this event. The ultimate objective is to interest students in education and careers related to robotics and to also make maritime related industries aware of the capabilities and efficiencies of using robotic boats for new science and technical support tasks. STEM educators, school robotics clubs and similar groups will be notified and invited to; witness the competition, attend seminars, meet and interact with the competing teams, and meet and interact with AUSVI Foundation leadership.

5. Describe the geographic coverage:

Pacific Rim, State of Hawaii, Honolulu:

- The competition will be hosted by Hawaii and will be open to teams of students from countries around the Pacific Rim. The first RobotX held in Singapore included teams from; U.S.A., Australia, Singapore, Japan and S. Korea. We expect the list of competing countries to increase for 2016.
- Outreach and invitations to K-12 and college students State-wide will be extended.
- The event will be held in Honolulu and include a calm water location (likely near Honolulu town) and a rough water location (likely windward side).

Further, the event will be featured and accessible world-wide via the RobotX web site http://www.robotx.org .

II. Service Summary and Outcomes

1. Describe the scope of work, tasks and responsibilities;

RobotX 2016 will consist of the following major Tasks and Sub-tasks:

a. Designing the challenges for the Competition:
    1. Courses including: the competition area, the practice area, and course boundaries
    2. Vehicle set-up and service area for teams
    3. Obstacles/Avoidance
    4. Recognition
    5. Common design requirements for competitors
    6. Common material and equipment requirements for competitors
    7. There will be land-based and in-water tasks, with evaluation and judging provided by an international panel of subject matter experts. Tasks rules will need to be established. Judges recruited.
b. Publicizing the event including: local, national and international press, media PSAs, social media, and the RobotX website.

c. Procuring and building the objects and elements of the event including: Course marks, obstacles, buoys, anchoring materials, sensor recognition schemes, other.
d. Securing local vendors to provide the logistical items that will be required:
    1. Support docks, floats and other on-water equipment.
    2. Tents, tables, audio/visual equipment.
    3. Storage
    4. Hoists
e. Working with local Hawaii firms for ancillary capabilities, i.e. hotels, catering, transportation, etc.
f. Working with the students to ensure shipping, travel and transportation needs and a successful Competition.
g. Conducting the Competition over a one week period including: actual on-water competition, auxiliary learning venue and sessions, logistics support, judging, website maintenance and updates, public relations support, opening and closing ceremonies support.
h. Demobilizing from the Competition including: competition site breakdown, vehicle breakdown and packing, shipping/storage of vehicles and equipment, and an event review and lessons-learned session with the Competition leadership team.

2. The applicant shall provide a projected annual timeline for accomplishing the results or outcomes of the service;

Planning for RobotX 2016:

Quarter 1 2016: - Initial planning, prospective site visits
- Finalization of tasks and rules; Initial PR and release; Solicitation of participating teams

Quarter 2 2016: - Selection of RobotX 2016 teams; securing local support and vendors
- Fabrication and shipping of boats to competitors; continued planning with local support

Quarter 3 2016: - Continued site refinement and planning; consultation and support of teams
- Increasing PR efforts in advance of the competition

Quarter 4 2016: - Heightened PR and local publicity; finalization of outstanding support issues, final site and course issues resolved
- RobotX 2016 – Hawaii occurs; post-event publicity ongoing, demob, review/lessons learned.

The project work will commence upon award and continue for 24 months. The following timeline details the activity:

Planning for RobotX 2016:	Q1 CY16	Q2 CY16	Q3 CY16	Q4 CY16
Initial planning, prospective site visits				
Final tasks & rules; Initial PR; Solic. Teams				
Sel. RobotX 2016 teams; ID local support and vendors				
Fab & ship boats; Cont planning				
Cont site plan; Consult & support of teams				
Ramp up PR to prior competition, Monitor/support teams				
High PR; Final coord/support; Final site & course plan				
RobotX 2016 Hawaii occurs; PR ongoing; Demob, review				

3. The applicant shall describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results;

Each step of the process will be closely monitored by an Oversight Committee consisting of representatives from the AUVSI Foundation, the U.S. Office of Naval Research, local engineering/marine companies, and (as available) State of Hawaii personnel from the University of Hawaii and/or the Department of Education. We will develop a detailed timeline and task matrix with regular status meetings and calls to ensure timeliness and progress. Significant experience was obtained from RobotX 2014 held in Singapore and will be invaluable in producing a quality competition with valuable educational outcomes.

4. The applicant shall list the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of appropriation differs from the amount included in this application that the measure(s) of effectiveness will need to be updated and transmitted to the expending agency.

The measures of effectiveness and accomplishment that will be reported to the expending agency or other as necessary will include:

- Teams signed up with names, country, university affiliation
- Progress by teams in planning, readiness, schedule compliance
- Progress by Competition Committee including status of all tasks listed in II.1. above.
- Successful completion of the Competition
- Publication of each teams journal paper at the RobotX website
- Feedback/Lessons Learned reports from competing teams at the conclusion of the competition.
- Report of students, parents, teachers who are involved/participate from State of Hawaii K-12 schools, the University of Hawaii, and other educational institutions.

III. Financial

Budget

1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.

Please see attached completed budget forms following this section.

2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2016.

Quarterly Funding Request

Q1 12/1-2/29	Q2 3/1-5/31	Q3 6/1-8/31	Q4 9/1-11/30	Total Grant
$ 189,974	$ 189,974	$ 189,974	$ 379,948	$ 949,870

3. The applicant shall provide a listing of all other sources of funding that they are trying to obtain for fiscal year 2016.

None. No other funds are being requested for 2016.

4. The applicant shall provide a listing of all state and federal tax credits that have 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.

HSATE lists the following tax credits and capitol project tax credits:

Tax Credits	2013	2014	2015
State of Hawaii	$0	$0	$0
Federal	$0	$0	$0
Research & Development	$0	$0	$0

Capitol Project Tax Credits	2013	2014	2015
State of Hawaii	$0	$0	$0
Federal	$0	$0	$0

5. The applicant shall provide a listing of all government contracts and grants it has been and will be receiving for program funding.

None. No other contracts or grants have been or will be awarded for the program funding.

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2014.

Other than access to limited non-monetized non-proprietary intellectual property from AUVSI Foundation, ONR, and local engineering/marine companies, the unrestricted current assets are $0.00.

BUDGET REQUEST BY SOURCE OF FUNDS

Period: December 1, 2015 to November 30, 2016

Applicant: Hawaii Science and Technology Education LLC

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	$300,160			
2. Payroll Taxes & Assessments				
Payroll Taxes	$27,014			
DCAA Overhead/Assessments	$276,147			
3. Fringe Benefits	$93,049			
TOTAL PERSONNEL COST	**$696,370**			
B. OTHER CURRENT EXPENSES				
1 Airfare, Inter-Island	$10,000			
2 Insurance	$5,000			
3 Lease/Rental of Equipment	$24,500			
4 Lease/Rental of Space	$10,000			
5 Staff Training	$10,000			
6 Supplies (shirts, lanyards, signs, site)	$10,000			
7 Telecommunication (wi-fi, apps, phone exp)	$5,000			
8 Utilities	$2,000			
9 Lodging	$7,500			
10 Audio Visual - video production/streaming	$20,000			
11 Shipping - competition boats & course equip	$50,000			
12 Technology	$20,000			
13 Outreach	$50,000			
14 Vehicular Transportation	$5,000			
15				
16				
17				
18				
19				
20				
TOTAL OTHER CURRENT EXPENSES	**$229,000**			
C. EQUIPMENT				
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)	**$949,870**			

SOURCES OF FUNDING		Budget Prepared By:
(a) Total State Funds Requested	$949,870	Susan Matsuura — 808-695-6654 (Name (Please type or print) — Phone)
(b) Total Federal Funds Requested		[redacted] — January 30, 2015 (Signature of Authorized Official — Date)
(c) Total County Funds Requested		Eric Schiff, President (Name and Title (Please type or print))
(d) Total Private/Other Funds Requested		
TOTAL BUDGET	**$949,870**	

BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: December 1, 2015 to November 30, 2016

Applicant: Hawaii Science and Technology Education LLC

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B	TOTAL STATE FUNDS REQUESTED (A x B)
President		$104,000	25.0%	$ 26,000
Program Director		$83,200	40.0%	$ 33,280
Controller		$72,509	15.0%	$ 10,876
Mechanical Engineer/Technical Coordinator		$68,286	50.0%	$ 34,143
Mechanical Engineer/Logistics Coordinator		$62,483	50.0%	$ 31,242
Small Vessel Maintenance Manager		$52,000	30.0%	$ 15,600
Marine Mechanic III		$81,827	30.0%	$ 24,548
Marine Mechanic II		$68,494	30.0%	$ 20,548
Marine Mechanic I/Laborer		$52,520	30.0%	$ 15,756
Electrician		$69,784	25.0%	$ 17,446
Controls Engineer		$93,600	40.0%	$ 37,440
Outreach Coordinator		$83,200	40.0%	$ 33,280
				$ -
				$ -
TOTAL:				$ 300,160

JUSTIFICATION/COMMENTS: The budget listed abovels based on estimates as available and previous experience with RobotX 2014 competition conducted in Singapore.

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: December 1, 2015 to November 30, 2016

Applicant: Hawaii Science and Technology Education LLC

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
			$0.00	
			$ -	
			$ -	
			$ -	
			$ -	
TOTAL:				

JUSTIFICATION/COMMENTS:

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
			$ -	0
			$ -	0
			$ -	0
			$ -	0
			$0.00	0
TOTAL:				

JUSTIFICATION/COMMENTS:

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: December 1, 2015 to November 30, 2016

Applicant: Hawaii Science and Technology Education LLC

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OF REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2011-2012	FY: 2012-2013	FY:2013-2014	FY:2013-2014	FY:2014-2015	FY:2015-2016
PLANS	0	$0	0.0%	$ -	0	0
LAND ACQUISITION	0	$0	0.0%	$ -	0	0
DESIGN	0	$0	0.0%	$ -	0	0
CONSTRUCTION	0	$0	0.0%	$ -	0	0
EQUIPMENT	0	$0	0.0%	$ -	0	0
TOTAL:	**0**	**$0**	**0.0%**	**$ -**	**0**	**0**
JUSTIFICATION/COMMENTS:						

GOVERNMENT CONTRACTS AND/OR GRANTS

Applicant: Hawaii Science and Technology Education LLC

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S / State / Haw / Hon / Kau / Mau)	CONTRACT VALUE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
				TOTAL	

IV. Experience and Capability

A. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

HSATE draws its support and experience from the AUVSI Foundation which has organized robotic competitions in many forms and from small to large scale dating back to 1991. These competitions have given us significant experience in planning, coordinating and running these events. Having just completed the first RobotX event in October of 2014, we have added to our existing experience and fully understand the unique complexities of the RobotX competition. That international event was managed in conjunction with the U.S. Office of Naval Research and the Singapore Ministry of Defence and, thus, was a multi-agency event. We are comfortable with having diverse stakeholders participate in our events and being able to meet the needs of each stakeholder.

B. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities.

The facilities to be used for the Competition and all logistics leading up to and immediately following the Competition will be temporary. No permanent/long term facilities are being acquired, rented or leased.

- A calm water competition area is anticipated in any of several areas including; Honolulu Harbor, Keehi Lagoon, Pearl Harbor, or Kaneohe Bay. Site selection will commence and a decision made in 2015.
- A rough water venue will also be used for this event and will be unique to Hawaii. At this time, it is anticipated that the Marine Corps Training Area – Bellows (MCTAB) will be the site. Initial contacts have been made through ONR regarding use of the site.
- Facilities for storage of team boats, challenge course materials and related equipment is expected to be donated by local engineering/marine companies.
- Other logistics facilities such as lodging, meeting rooms, gathering sites will be booked in advance at best group/conference or government rates. Use of meeting rooms, work spaces and other sites will be solicited and may be offered by local companies.

V. Personnel: Project Organization and Staffing

A. Proposed Staffing, Staff Qualifications, Supervision and Training

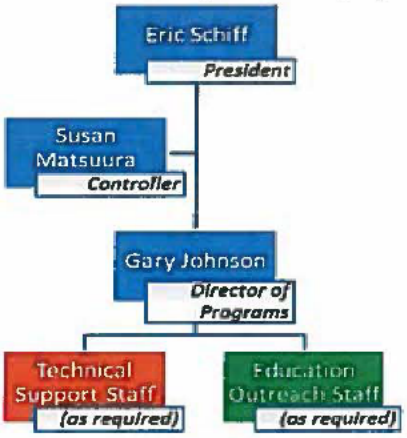
The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

The staffing will be allocated over the term of project consistent with the Scope of Work and the tasks. Technical and program staff will be involved from the first month establishing the plan and procedures. Staff will continue with planning, coordination, logistics, PR and reporting. Finally, program staff will oversee the project and support all phases of task activity.
Please see attached sheets which detail the staff experience and qualification.

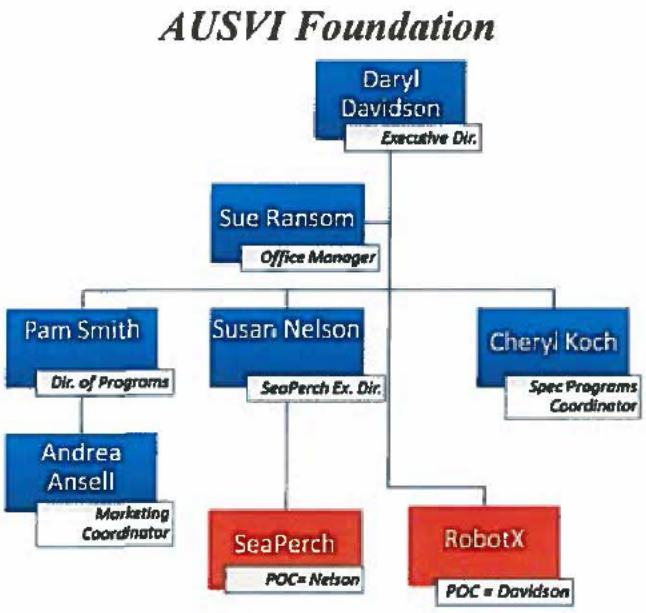
B. Organization Chart

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 organizational chart that illustrates the placement of this request.

HSATE Staff include Eric Schiff, President; Gary Johnson, Program Director; Susan Matsuura, Controller and technical and outreach staff as required on a project basis (similar to the request).



AUVSI Foundation staff (Exec. Director, Director of Programs, Special Programs Coordinator, Marketing Coordinator, and Office Manager). On-site staff will include: 1 Technical Director, 3 Assistant Technical Directors, 1 Logistics Director, 5 Assistant Logistics Assistants and 3 Competition Support Staff. U.S. Navy Reservists are expected to play a significant role in the operation of RobotX 2016.



C. Compensation

The applicant shall provide annual salaries paid by the applicant to the three highest paid officers, directors, or employees of the organization by position.

HSATE Salaries.

POSITION TITLE	ANNUAL SALARY
President	$104,000.00
Program Director	$83,200.00
Controls Engineer	$93,600.00

VI. Other

A. Litigation

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

There is no litigation pending with Hawaii Science and Technology Education LLC.

B. Licensure or Accreditation

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

Please also refer to experience descriptions.
Staff includes personnel with the following licensure/accreditation:

- Hawaii State Professional Engineer (PE)
- USCG Ocean Operator's License
- Honolulu City & County Lifeguard Certification
- CPR
- PADI Scuba Certifications including; Master Diver and Rescue Diver

C. Federal and County Grants

The applicant shall separately specify the amount of federal and county grants awarded since July 1, 2014.

There have been no federal or county grants awarded since July 1, 2014.

D. 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.

The grant will not be used to support any private educational institutions.

E. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2015-16 the activity funded by the grant if the grant of this application is:
(1) Received by the applicant for fiscal year 2015-16, but
(2) Not received by the applicant thereafter.

The RobotX 2018 Challenge will be held in another country or state. The funding to support that next effort will be requested from that country or state's granting authority. As part of the next and future challenges, outreach will continue via HSATE, RobotX and AUVIS Foundation to Hawaii schools, colleges, robotics clubs and others who participate in RobotX 2016.

F. Certificate of Good Standing (If the Applicant is an Organization)

If the applicant is an organization, the applicant shall submit one (1) copy of a certificate of good standing from the Director of Commerce and Consumer Affairs that is dated no earlier than December 1, 2014.

The Certificate of Good Standing follows here:

Department of Commerce and Consumer Affairs

CERTIFICATE OF GOOD STANDING

I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that according to the records of this Department,

HAWAII SCIENCE AND TECHNOLOGY EDUCATION LLC

was organized under the laws of the State of Hawaii on 01/15/2015 ; that it is an existing limited liability company in good standing and is duly authorized to transact business.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Commerce and Consumer Affairs, at Honolulu, Hawaii.

Dated: January 29, 2015

[redacted]

Interim Director of Commerce and Consumer Affairs

To check the authenticity of this certificate, please visit: http://hbe.ehawaii.gov/documents/authenticate.html
Authentication Code: 225680-COGS_PDF-125155C5

DECLARATION STATEMENT OF APPLICANTS FOR GRANTS PURSUANT TO CHAPTER 42F, HAWAI'I REVISED STATUTES

The undersigned authorized representative of the applicant certifies the following:

1) The applicant meets and will comply with all of the following standards for the award of grants pursuant to Section 42F-103, Hawai'i Revised Statutes:

   a) 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 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, sexual orientation, 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 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 ensuring the proper expenditure of the grant.

2) If the applicant is an organization, the applicant meets the following requirements pursuant to Section 42F-103, Hawai'i Revised Statutes:

   a) 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.

3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawai'i Revised Statutes:

   a) 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 serve without compensation.

Pursuant to Section 42F-103, Hawai'i 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 disposes of the land in fee simple or by lease, the organization shall negotiate with the expending agency for a lump sum or installment repayment to the State of the amount of the grant used for the acquisition of the land.

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

Hawaii Science and Technology Education LLC
(Typed Name of Individual or Organization)

[redacted]
(Signature)

January 30, 2015
(Date)

Eric Schiff
(Typed Name)

President
(Title)

Appendix I

Eric Schiff, *President*, has served as senior project manager for the past 25 years involved in maritime projects including ship construction, vessel operations and marine surveying and inspections. His responsibilities have also included negotiating subcontractor agreements and supervising all contractor activities, including work with national and international equipment suppliers. He serves on the Board of Trustees of Hanahauoli School and has provided marine career guidance and lectures to local high school students and the Kanehunamoku Voyaging Academy.

Gary Kahaleiwai Johnson, *Program Director,* earned a B.S.E. in Mechanical Engineering from the University of California at Santa Barbara in 2006 and a M.S. in Naval Architecture from the University of Southampton in 2011. He is a superb organizer and executes large and complex projects with efficiency and dedication. He spends the majority of his free time on boats and in the ocean. Gary is an avid fisherman, and he also paddles one and six-man canoes, surfs, kayaks, free-dives, and loves to stand-up paddle. He has paddled and escorted canoe races between Molokai and Oahu numerous times.

Brian J. Kays, P.E., *Controls Engineer* manages the Advanced Ride Enhancement Systems (ARES) Group. Mr. Kays holds a B.S. in Mechanical Engineering from the University of Washington and is a licensed Professional Engineer with the State of Hawaii. As a community volunteer, Mr. Kays has been involved with First Robotics since 2008. Initially, as an assistant coach and mentor to a First Lego League (FLL) team. That team qualified for and competed in the First Robotics World Championships in 2010 at Atlanta, Ga and in 2012 at St. Louis, Mo. Starting in 2012, Mr. Kays was a mentor for a First Tech Challenge (FCT) team which competed in the Southern California Regional FTC Tournament. At the Hawaii State Regional FLL and FTC Tournaments from 2009 to 2014, Mr. Kays has served as a Tournament Hardware Inspector in 2013 and as a Tournament Software Inspector in 2014.