

ArbNet Arboretum Accreditation Application Form

The ArbNet Arboretum Accreditation Program provides standards and guidelines for the establishment and development of an arboretum. The goals of the accreditation program are to:

1) foster the establishment and professionalism of arboreta;

2) identify arboreta capable of participating or collaborating in certain scientific,   
collections, or conservation activities; and

3) advance the planting, study, and conservation of trees to improve the world.

Arboreta that are accredited are encouraged to become leaders and serve as models to promote professional development and engagement with other arboreta.

Different levels of accreditation have been established to recognize arboreta at varying degrees of development, capacity,   
and professionalism. Accredited arboreta are encouraged to continue their growth and development to achieve higher  
professional standards.

Arboreta and public gardens are eligible to apply for accreditation by submitting this form along with supporting documentation to demonstrate their level of achievement according to the specified standards. Once the application is completed, a decision will usually be made within four weeks. A site visit by an ArbNet representative may be required as part of the accreditation process.

The ArbNet Arboretum Accreditation Program is sponsored and supported by The Morton Arboretum, Botanic Gardens Conservation International (BGCI), and the American Public Gardens Association (APGA).

Arboreta and public gardens completing an application for ArbNet Accreditation Level III or Level IV are able to provide additional information to be considered for BGCI Botanic Garden Accreditation: <https://www.bgci.org/our-work/services-for-botanic-gardens/bgci-accreditation-scheme/botanic-garden-accreditation/>.



Please submit your completed

application via email:

**Email:** arbnet@mortonarb.org

For more information regarding

specific accreditation requirements:

**Visit:** arbnet.org/accreditation

**Call:** 630-310-7013

**Email:** arbnet@mortonarb.org

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| Arboretum: | |
| Name of Arboretum: | **Sample Arboretum Level IV** |
| Address or PO Box: |  |
| City: |  |
| State/Province: |  |
| Country: |  |
| ZIP/Postal Code: |  |
| Latitude and Longitude: |  |
| Acres: |  |
| URL: |  |

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| Arboretum Contact (for ArbNet purposes): | |
| Name: |  |
| Title: |  |
| Email: |  |
| Phone: |  |
| Fax: |  |

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| --- | --- |
| Individual Submitting Application (if not arboretum contact): | |
| Name: |  |
| Title: |  |
| Email: |  |
| Phone: |  |
| Fax: |  |

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| Type of organization:  *Please check all that apply:* | | | | | |
| x | Arboretum | x | Historical Site | x | Nonprofit |
| x | Garden |  | Museum |  | City Park |
|  | College |  | Cemetery |  | Town |
|  | University |  | Business |  | City |
|  | Zoo |  | Golf Course |  | Community |
|  | Other: | | | | |

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| Authorization and Verification  The chairperson or leader of the applicant arboretum’s governing board, organizational group, or authority  (corresponding to Section I.b below) must approve this application, specifically verifying the accuracy and  authenticity of the information it contains. Approval is indicated by placement below of this individual’s  name, title or role at arboretum, and contact information.  *Authorizing/Verifying Governance Leader (other than individual submitting application):* | |
| Name: |  |
| Title: | **CEO & President** |
| Email: |  |
| Phone: |  |
| Fax: |  |

Arboretum Accreditation Standards

Accreditation standards are outlined on the website, **arbnet.org/ accreditation.html**, and described in each of the following application sections. Please indicate which of the following standards have been met by the applicant and provide the information requested. Fulfillment of these standards is self-determined by the applicant.

**Arboretum accreditation level sought (check one): \_\_\_LEVEL I**  **\_\_\_LEVEL II**  **\_\_\_LEVEL III \_x\_\_LEVEL IV**



FOUR LEVELS OF ACCREDITATION

Please use this chart as a reference. The levels of accreditation recognize arboreta with different degrees of development, capacity, and professionalism.



1. General Accreditation Requirements (All Levels)

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| **a. Arboretum Plan**  Documentation such as an organizational plan, strategic plan, master plan, or other, that defines the purpose of the arboretum, its audience(s), the types of plants that are to be grown to achieve that purpose and serve those audiences, provisions for the maintenance and care of the plants, and provisions for the continuing operation of the organization through time with a clear succession plan. Sample organizational plans can be found [**here**](http://arbnet.org/sites/arbnet/files/ArbNet%20Sample%20Arboretum%20Plan.pdf)on ArbNet**.**  *Provide a brief description or outline of the type and scope of the plan for your arboretum. Attach the Master Plan document if possible.* |
| **The NTBG is comprised of 5 different gardens and Preserves which are located throughout Hawai`i and in Florida. They are Allerton Garden, McBryde Garden, Limahuli Garden & Preserve, Kahanu Garden and The Kampong. We have a master landscaping plan for McBryde and Kahanu Garden, as well as a Strategic Plan for the entire NTBG. Please find these documents attached.**  **Part of the historic Allerton Garden is Lawai Kai (Lawai Bay). NTBG developed a plan to create a special subzone for Lawai Kai within the Conservation District of the State of Hawai'i. Foundational to this plan is the management structure which created a partnership with the private landowner (NTBG), the State of Hawai'i Department of Land and Natural Resources (DLNR), and the community (via the Lāwa'i Kai Resource Advisory Committee).**  **We believe this proactive approach will create a true ahupua'a-based (traditional land division) management strategy that effectively integrates the management of the cultural, terrestrial, aquatic and marine resources and balances the management of these resources with the desires to see this area used for conservation, research, education, and limited recreation. If we are successful in this visionary approach, Lāwa'i Kai will become a pu'uhonua -- a place of refuge -- for future generations to love and enjoy just as we have.**  **In June 2013 the State of Hawai'i designated the land, the beach, and the bay as the Lāwa'i Kai Special Subzone.**  **The Lāwa'i Kai Master Plan of August 2012 consists of the following documents (PDF) which are accessible on our website:**  [**Preface, Contents and Chapters 1-13: Introduction, Principles & Vision, Property, Existing Conditions, Management Plans**](http://www.ntbg.org/gardens/media/LKSS_MPMP-Preface_TOC_Ch1-13.pdf)  [**Chapter 14: Exhibits**](http://www.ntbg.org/gardens/media/LKSS_MPMP-Exhibits-Ch14.pdf)  [**Chapters 15-17: Acknowledgments, References, Appendices**](http://www.ntbg.org/gardens/media/LKSS_MPMP-Ack_Ref_Append-Ch15-17.pdf) |
| **b. Organizational or Governance Group**  A governing board, group of people, or authority that is dedicated to the arboretum plan and its continuation beyond the efforts of a single individual. Such an organizational/governance group will affirm fulfillment of standards and authorize participation as an accredited arboretum.  *Describe the nature of your governance board or authority and the number and type of individuals involved. Attach any relevant documents or policies relating to the Governance Group.* |
| **The National Tropical Botanical Garden is the only tropical botanical garden with a charter from the United States Congress. Federal charters for private nonprofit entities, such as the NTBG charter, have been granted by Congress only rarely and then only in the circumstance that a compelling case has been made to the Congress that the proposed organization will serve an important national and public need.**  **The Garden’s Congressional Charter included the establishment of a Board of Trustees to govern the organization. The NTBG Board is dedicated to carrying out the mission and objectives of the organization. Members of the Board of Trustees meet two times per year to review progress, make policy decisions, and approve budgets and programs, based on the recommendations of the Director and his staff.**  **NTBG’s governing board consists of 32 individuals with varied backgrounds and interests. All have a high interest in plant conservation, botanical research, and related education. In addition, a number of members of the Board are experienced and successful in financial management and fundraising. Trustees are elected by the Board. Board service is voluntary and no compensation is received.**  **The governing board of the National Tropical Botanical Garden has empowered Chipper Wichman as President and CEO to make the type of decisions and commitments that are in line with authorization of participation and affirmation of fulfillment of standards.** |
| **c. Arboretum Collection**  The number of tree and woody plant species being grown in accordance with the arboretum plan. Plants in the arboretum’s collection must be labeled in some way to identify them taxonomically, including scientific name and cultivar if applicable, and documented in some way so that information on their acquisition (source or origin, date of acquisition, etc.) is available for access. Minimum numbers are:  **25+ Species (Level I) 100+ Species (Level II) 500+ Species (Levels III and IV)**  *Indicate the number of trees/woody plant species in the collection and describe the method for labeling and documenting the plants. Provide the link to your collections database and indicate if it is shared in a searchable, open-access database, such as BGCI PlantSearch (http://www.bgci.org/plant\_search.php). If your collection species list is not shared or accessible online, please attach the list with your application.*  **Our database is searchable via BGCI PlantSearch as well as through our website:** [**http://lawai.ntbg.org:7324/conservation/**](http://lawai.ntbg.org:7324/conservation/)  **As of today (August 8, 2016) there are 3,255 taxa in our collection. We label each tree and shrub with an individual stainless steel tag and the following information: Accession ID and plant out number, Genus species, Family, Collector Date and ID, Short Locality, Provenance Type, and IUCN, PEP and CPC statuses. For a smaller subset of trees and shrubs we provide additional interpretive signage for our visitors.** |
| *List any special taxonomic, geographic, ecological, or conservation collections of note* (e.g. oaks; *Acer*; dwarf conifers; halophytes; woody plants of Madagascar; etc.):  **Please see attached list titled “NTBG Collections and Categories 2007” for a complete listing of our special collections.** |



Botanical Gardens Conservation International (BGCI) is an international organization with a mission to ensure   
the conservation of threatened plants worldwide. Its global database provides information on the plants kept   
in living collections around the world. Your data will help conservationists, policy makers and planners, educators,   
and others working to save plant diversity—and can help measure the threatened plants safely in cultivation   
somewhere in the world. The location of your plants is kept hidden from Plant Search users so you will not face   
any security issues regarding rare or valuable plants.

SHARE YOUR DATA

To share your collections database with BGCI, visit: **https://www.bgci.org/resources/bgci-tools-and-resources/plantsearch-upload-instructions/**.

*Detailed instructions are provided.*



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| **d. Arboretum Staff or Volunteer Support** |
| 1. **Level I**   Employees or volunteers who ensure fulfillment of the arboretum plan and provide for the basic needs of the arboretum collection and functions of the arboretum.  *Describe the scope of staff or volunteers engaged in or supporting the work of the arboretum.* |
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| 1. **Levels II, III, & IV**   One or more paid arboretum employees who have job responsibilities that specifically include management or operation  of the arboretum in fulfillment of the arboretum plan.  *Describe the staff responsible for management or operations of the arboretum, including staff dedicated to educational*  *programming for Levels III & IV.* |
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| 1. **Levels III & IV**   A dedicated curator, or curator-equivalent employee, who is focused on the care and development of the arboretum collection, in accordance with the arboretum plan and collections policy.  *Provide the name and job title of the curator or curator-equivalent employee.* |
| **Mike DeMotta, Curator** |
| **e. Arboretum Public Dimension**  A public dimension that includes some level of public access, and at least one public event or educational program each year focused on trees, forest ecology, or arboretum purposes (for example, an Arbor Day observance).  *Describe how the arboretum is open or accessible to the public, and name and describe the public events or programs offered.*  **We have a variety of public events such as Arbor Day, plant sales, art exhibits, workshops, lectures, symposia, school visits, fundraising events and both guided and self-guided tours. This September, National Tropical Botanical Garden (NTBG), and the Kauaʻi Conservation Alliance (KCA) are partnering to present the Kauaʻi Conservation Expo and Expeditions – A special three-day conservation event for IUCN Congress delegates, attendees, NTBG members and the Kauaʻi community.** |
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2. Collections and Education (Required for Levels II, III, and IV)

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| **a. Arboretum Collections Policy**  A collections policy describes the purpose, development, and professional management of the plants in the arboretum collection, in accordance with standards developed in the public garden and museum fields. Such a policy and related practices includes a rationale for holding the particular collections of the arboretum, collections inventory, and record-keeping practices. Examples are available on the [**ArbNet website**](http://arbnet.org/sites/arbnet/files/ArbNet%20Sample%20Collections%20Policy%203%20%202014_0.pdf).  *Describe and outline the elements of the collections policy and attach the document if possible.* |
| **The** [**NTBG Collections policy**](http://ntbg.org/resources/NTBG_Collections-Policy.pdf) **details the need for a policy, the collections goals, the types of collections, the policies and procedures pertaining to collections and the use of collections by staff and outside agencies. Please see the attached document.**  **In additional to this policy NTBG’s Breadfruit Institute has its own policy pertaining to breadfruit acquisition and distribution. Please see a brief description below.**  **The mission of the Breadfruit Institute at the National Tropical Botanical Garden is to promote the conservation, study, and use of breadfruit for food and reforestation.**  **The** [**Breadfruit Institute**](http://www.breadfruit.org) **manages a field genebank repository of 300 accessions representing the breadfruit complex (Artocarpus altilis, A. camansi, A. mariannensis, and A. altilis x A. mariannensis). The National Tropical Botanical Garden does not directly provide propagating material from the repository in the form of seeds, or vegetative materials such as root cuttings, root shoots, or stem cuttings/air layers. The NTBG has an agreement with** [**Cultivaris LLC**](http://www.globalbreadfruit.com) **to distribute selected elite varieties from the repository as disease-indexed, weaned plants in soil-free media produced using micropropagation methods. Distributing and sharing of breadfruit germplasm through this agreement with Cultivaris includes benefit-sharing arrangements with the country(s) of origin of varieties sold and distributed by Cultivaris.** |
| **b. Enhanced Educational and Public Programming**  Enhanced or substantial educational and public programming beyond the basic level required for Level I accreditation. Programs must be related to trees (e.g. tree identification, forest ecology, conservation, collections, or some other tree-focused aspect of the arboretum mission or master plan). |
| 1. **Level II Enhanced Education Program**   *Describe the educational and public programs offered by the arboretum. Include evidence of at least two outcome-based education programs (e.g. provide program description, syllabus, hand-outs, worksheets, tour script, tour map, etc.).* |
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| 1. **Levels III and IV Substantial Education Program**   *A substantial program of education related to trees, woody plants, forest ecology, conservation, and other related topics. Provide a description of your overarching program plan including your education program strategy, number of outcome-based education programs, and explain how they are evaluated.* |
| **Since 1998, we have successfully developed and run courses designed for graduate students in tropical ethnobotany, biodiversity and conservation biology, environmental journalism, physician and health care professional development, college professors’ review of introductory biology, and we offer a horticultural internship. This year, we offered the thirteenth science teachers’ enrichment program (STEP) in tropical biology with the focus on science teachers in the middle and high school levels. We also run summer Nature Adventure Camps - Keiki o ka `Āina – for ages 7 and up, as well as occasional workshops and lectures. Our website has a listing of our recurring programs at** [**http://ntbg.org/programs/education-crsint.php#25**](http://ntbg.org/programs/education-crsint.php#25)  **Evaluation of these programs varies by type. Some are grant funded and have specific criteria that must be fulfilled in order to continue. Others are evaluated by program participants and directors.** |

3. Required for Level III Only

Please complete if you are interested in acquiring a Level III accreditation. If you are interested in a Level IV accreditation, please skip this section and complete only the Level IV section below.

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| **a. Collaboration**  A professional capability to collaborate in some way with other arboreta or relevant organizations (e.g. public gardens, universities, local government, NGOs, student groups, etc.), preferably with evidence of existing collaboration. Examples of collaborations may include plant evaluations, research projects, *in situ* or *ex situ* conservation projects, educational programs, exhibits, public events, interpretation, collecting expeditions, plant exchanges, professional meetings, and co-authoring scientific research papers.  *Provide examples of existing collaborations with other arboreta and related organizations.*  *Please describe your capacity to collaborate.* |
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| *Please indicate whether you are a member of the following professional organizations or indicate other professional societies in which you participate.*  **\_\_\_**BGCI Botanic Gardens Conservation International (**bgci.org/global/members**)  **\_\_\_**APGA American Public Gardens Association (**publicgardens.org/content/membership-central-0**)  **\_\_\_**Plant Collections Network (**publicgardens.org/programs/about-plant-collections-network**)  **\_\_\_**Other: |
| **b. Collections Data Sharing**  Sharing of plant collections data with networked collections databases, such as BGCI’s PlantSearch Database (**https://www.bgci.org/resources/bgci-tools-and-resources/plantsearch-upload-instructions/**).  *Describe how the arboretum shares its plant collections data with one or more networked collections databases.* |
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| **c. Tree Science, Planting, and Conservation**  An active agenda related to tree science, strategic planting, or conservation. This agenda should include direct research or the facilitation of scientific activities beyond public educational activities, in which data are acquired to solve problems in tree science or tree conservation. Examples include conducting plant trials; habitat monitoring; detecting pests and diseases; hosting collections-based research projects; and conducting research in forest ecology, physiology, systematics, seed and tissue banking, horticulture and tree care. You may refer to the Global Trees Campaign addendum at the end of this application for examples of important tree conservation activities. The Global Trees Campaign (www.globaltrees.org) is the only international conservation program dedicated to saving the world’s threatened tree species.  *Describe the arboretum’s activities related to tree science, planting, and/or conservation. Include a list of relevant references, reports, or peer-reviewed journal articles.* |
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4. Required for Level IV

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| **a. Collaboration**  A professional capability to collaborate in some way with other arboreta or relevant organizations (e.g. public gardens, universities, local government, NGOs, student groups, etc.), preferably with evidence of existing collaboration. Examples of collaborations may include plant evaluations, research projects, *in situ* or *ex situ* conservation projects, educational programs, exhibits, public events, interpretation, collecting expeditions, plant exchanges, professional meetings, and co-authoring scientific research papers.  *Provide examples of existing collaborations with other arboreta and related organizations.*  *Please describe your capacity to collaborate.* |
| **We actively collaborate with U.S. Fish & Wildlife Service, the Nature Conservancy, the State’s Dept. of Land & Natural Resources and Plant Extinction Prevention Program’s restoration and species recovery projects. We also collaborate with the Army, the University of Hawai`i and other local organizations such as Kaua`i Conservation Alliance and private landowners.** |
| *Please indicate whether you participate in the following professional organizations or indicate other professional societies*  *in which you are a member.*  **\_x\_\_**BGCI Botanic Gardens Conservation International (**bgci.org/global/members**)  **\_x\_\_**APGA American Public Gardens Association (**publicgardens.org/content/membership-central-0**)  **\_\_\_**NAPCC North American Plant Collections Consortium (**publicgardens.org/napcc**)  **\_x\_\_**Other: **We are in the process of obtaining Plant Collections Network (preciously NAPCC) certified collections, starting with Breadfruit. When we do so we will be the first PCN certified garden in the state of Hawai`i .** |
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| **b. Collections Data Sharing**  Sharing of plant collections data with networked collections databases, such as BGCI’s PlantSearch Database  (**https://www.bgci.org/resources/bgci-tools-and-resources/plantsearch-upload-instructions/**).  *Describe how the arboretum shares its plant collections data with one or more networked collections databases.* |
| **We upload our entire plant database to BGCI PlantSearch annually. We are in the process of creating a state-wide database of endangered plants to focus and unite conservation organizations across the state. We also provide access to U.S. Fish & Wildlife Service for 5 year endangered species reviews. Our database is also available on our website:** [**http://lawai.ntbg.org:7324/conservation/**](http://lawai.ntbg.org:7324/conservation/) |
| **c. Collections Conservation**  Institutional capacity, stability, and commitment to hold and safeguard plants of collections or conservation value on  behalf of the collective interests of the profession.  *Confirm and describe the arboretum’s capacity and readiness to hold and safeguard plants of collections or conservation value. Describe specific collections of value and interest (i.e. endangered species) and include the percentage of wild-collected accessions in your collections as applicable.*  **NTBG has an extensive collection of rare and endangered native Hawai`i an species, of which 42 taxa have fewer than 50 individuals remaining in the wild. The provenance of our collections is 60% wild or wild source in cultivation. We also cultivate a wide range of threatened and endangered (T&E) non-native tropical flora. Including native Hawai`i an species we have approximately 2,500 T&E plants representing 176 taxa at McBryde Garden alone. In all of NTBG’s gardens and preserves we cultivate roughly 15,000 T&E plants, of which 3,300 are plants with fewer than 50 individuals remaining in the wild.** |
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| **d. Scientific or Conservation Staff and Capability for Collaboration**  A scientific and/or conservation staff and capability to collaborate on scientific or conservation activities with other  arboreta or organizations related to trees. An active agenda related to tree science, forest ecology, strategic planting, or conservation. This agenda should include direct research or the facilitation of scientific activities beyond public educational activities, in which data are acquired to solve problems in tree science or tree conservation. Examples include conducting plant trials; habitat monitoring; detecting pests and diseases; hosting collections-based research projects; and conducting scientific research in forest ecology, physiology, systematics, seed and tissue banking, horticulture or tree care.  *Describe the scientific and/or conservation staff, and the arboretum’s capability to collaborate on sophisticated scientific or conservation activities. Include areas of research and a list of relevant publications.*  **The National Tropical Botanical Garden is dedicated to preserving tropical plant diversity and stemming the tide of extinction - through plant exploration, propagation, habitat restoration, scientific research, and education. We have a relatively large Science and Conservation staff including botanists, horticulture staff, cultural practitioners, a conservation biologist, field collectors and seed bank staff. We also have the second largest herbarium in the state. Please see as examples of the research being done at NTBG the attached CV’s for Dave Lorence : Director of Science and Conservation, Diane Ragone: Director of the Breadfruit Institute, Tim Flynn: Herbarium Manager, Kawika Winter: Director of Limahuli Garden, and Dustin Wolkis: Seed Bank Manager.**  **Dr. David Lorence occupies the B. Evans Chair of Botany and came to the National Tropical Botanical Garden in 1987. He is the Senior Research Botanist for the organization. Research specialties are systematic studies of tropical plants, floristics, and invasive plant species. His systematic research focuses on Pacific and neotropical members of the large and diverse Rubiaceae family, which includes coffee, quinine, and gardenias. He also studies the Monimiaceae family of the Malagasy region and tropical America.**  **Dr. Lorence's floristic research includes a multi-institutional collaboration on a "Vascular Flora of the Marquesas Islands," contributing partial treatment of the Rubiaceae for "Flora Mesoamericana," and participating in a project to develop an annotated checklist of the plants of Pohnpei and Kosrae. His research on invasive species includes restoration efforts targeting Hawai`i an dryland forest and exotic species invasion in Mauritius wet forest communities. He has carried out extensive fieldwork in Hawai`i, Samoa, the Marquesas, Micronesia, New Caledonia, Mexico, and the Malagasy region.**  **Dr. Lorence directs the research library and herbarium at headquarters, curates NTBG's collections of Rubiaceae and of Zingiberales, and serves on the board of the Heliconia Society International.**  **He is editor of Allertonia, NTBG's series of occasional papers.**  **Dr. Ragone was appointed Director of the Breadfruit Institute in 2003 and has worked at the National Tropical Botanical Garden since 1989. She is an authority on the conservation and use of breadfruit, conducting horticultural and ethnobotanical studies on this important Pacific staple crop for 30 years. Her extensive fieldwork on over 50 islands in Micronesia, Polynesia, and Melanesia enabled the NTBG to establish the world's largest collection of breadfruit at its Kahanu Garden in Hāna, Maui. The Breadfruit Institute was created to promote the conservation and use of breadfruit for food and reforestation.**  **Current research involves collaborative projects to develop in vitro methods to conserve and distribute breadfruit cultivars; nutritional and salinity studies; molecular and morphological studies to understand taxonomic relationships, origin, and distribution of breadfruit in the Pacific; and ethnobotanical studies on traditional uses of breadfruit in Polynesia and Micronesia.**  **Dr. Ragone is an Adjunct Professor at the University of Hawai`i in the Department of Tropical Plant and Soil Sciences. She is the author of more than 80 publications on breadfruit, ethnobotany, horticulture, and native plant conservation. Dr. Ragone holds a Ph.D. and M.Sc. in Horticulture from the University of Hawai`i and a B.Sc. from Virginia Tech.** |
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| **e. Conservation Role in Global Trees Campaign**  Specific consideration of a conservation role linked to supporting the mission of the Global Trees Campaign (GTC, **globaltrees.org**). Administered by Botanic Gardens Conservation International (BGCI) and Fauna & Flora International (FFI), The Global Trees Campaign (www.globaltrees.org) is the only international conservation program dedicated to saving the world’s threatened tree species. Visit the GTC website to see learn more about their mission and the types of projects they support.  To satisfy Level IV accreditation requirements, please complete the attached **Global Trees Campaign Addendum** at the end of this application in addition to filling out the written narrative here.  *Describe how the arboretum is or intends to engage in conservation efforts related to the Global Trees Campaign and highlight your key programs or initiatives that aim to support in situ conservation of threatened tree species.*  **Currently we have a large collection of threatened trees for which we actively develop collecting trips, propagation protocols and reintroduction strategies. We have conducted and are planning to conduct more red listing workshops for native Hawai`i an species. We actively share plant material with the government and other botanic gardens and universities. We are developing the Hawai`i Strategy for Plant Conservation as a supplement to the Global Strategy, for the rarest trees in Hawai`i . We manage reintroductions and invasive removal in the Limahuli Preserves on Kaua`i .** |
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| **f. Other Scientific or Conservation Collaboration**  Please provide other information related to science and conservation activities that you would like to share.  *Provide additional examples of the arboretum’s existing collaborative scientific or conservation activities related to trees (i.e. habitat management) and identify any opportunities for future collaboration.*  **The most effective long-term response to preserve endemic plant populations in Hawai‘i and elsewhere is to protect their habitats and to manage threatened plants in those habitats. However, for many species this response cannot be implemented quickly enough to prevent extinction. For this reason, conservation activities necessarily extend beyond in situ habitat management to incorporate a coordinated strategy that integrates conservation with education, scientific research, curation of living collections, and propagation of at-risk plants ex situ.**  **Discovery of rare endemic species and collection of seeds and other materials for propagation and ex situ conservation has been a core part of NTBG’s effort since the Garden was founded. Our staff of field botanists have made thousands of collecting expeditions throughout Hawai‘i and other Pacific Islands. Adapting to the sometimes extremely challenging habitats in which they work, our field biologists have pioneered rough-terrain and high-cliff climbing techniques to gather seeds of rare species, some of them now extinct in the wild, for use in reintroduction efforts.**  **Over the past 20 years, species that were previously unknown to science have been discovered by NTBG botanists and roughly two dozen species in Hawai‘i that were thought to be extinct have been rediscovered by these intrepid scientists. The discovery of unknown species is central to conservation efforts, as species cannot be saved if we do not know that they exist, where they are located, and that they are endangered.**  **The work of the conservation staff includes a wide range of activities that support its primary plant conservation strategies, including projects to control alien species, watershed management, ecological monitoring, and conservation education. Since it was established on Kaua‘i in 1970, the National Tropical Botanical Garden has been a leader in the conservation of plants in Hawai`i and the greater Pacific area. Some recent examples of collaborative efforts include the following:**  [**Hawai`i Conservation Alliance's Watershed Snapshot initiative**](http://www.hawaiiconservation.org/what-we-do/our-strategy/effective-conservation-restoration/community-watershed-snapshot)**. This effort, aimed at making conservation and research endeavors more relevant to communities around the State, has been an ongoing process for the past four years. Out of about two dozen communities considered, Hā`ena, home of NTBG’s Limahuli Garden & Preserve, ended up being one of eight selected to participate in determining key biocultural conservation metrics.  Of those eight, Hā`ena was one of three selected as model communities active in ridge-to-reef, community-based conservation.**  **On the detecting pests and diseases front, NTBG is a member in the Plant Sentinal Network and horticulture staff completed their diagnostic training, as well as achieved First Detector Certifications. These are national recognized affiliations that work directly with APHIS to monitor invasive pest and disease threats. We hope to work collaboratively in the future to create pest and disease outreach materials specific to Hawai`i .**  **On September 7, NTBG and the**[**Kaua`i Conservation Alliance**](http://www.kauaiconservation.org/)**(KCA) are partnering to present the Kaua`i Conservation Expo  – an unprecedented, all-day conservation and cultural event on the island of Kaua`i in honor of the**[**IUCN Congress**](http://www.iucnworldconservationcongress.org/)**convening in Hawai`i this September.**[**The Kaua`i Conservation Expo**](http://ntbg.org/tours/kcee)**is an island-wide effort and hands-on day of activity at NTBG's McBryde Garden in Po`ipu.** |
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| **Optional Accreditation Comments or Explanations:** |
| **We hope to participate more fully in the GTC by having a staff member who is committed to this purpose once we become accredited.** |

gLOBAL TREES cAMPAIGN ADDENDUM (required for Level IV accreditation):

The following list includes activities that support the mission of the Global Trees Campaign (www.globaltrees.org). Please check all activities that your arboretum participates in and then provide a brief description of those checked activities in section 4 e:

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|  | Formal participation in a conservation project affiliated with the Global Trees Campaign (GTC)  Project Title: |
|  | Member or supporter of the Ecological Restoration Alliance of Botanic Gardens (www.erabg.org) |
|  | Host a GTC exhibition or provide GTC educational content (e.g. Vanishing Acts, Care for the Rare tree interpretation, etc.) |
| x | Carry out education/awareness raising among your visitors for threatened trees |
|  | Promote GTC through your networks, conferences, presentations, social media, and arboretum website |
|  | Provide training workshops at your institution on threatened tree conservation (not direct GTC Involvement) |
|  | Host GTC conference, training workshop or related meeting (e.g. IUCN Global Tree Specialist Group meeting) |
|  | Contribute content, expertise, or other support to a GTC training workshop, brief, manual, or report |
|  | Support an employee to work for the GTC (part time or full time) |
|  | Support an employee who is a member of the IUCN Global Tree Specialist Group |
| x | Develop protocols for propagation of threatened tree germplasm |
| x | Share threatened tree germplasm/material with other institutions |
| x | Host a native or threatened tree nursery |
|  | Undertake planting trials for threatened trees |
|  | Conduct conservation genetics research on *in situ* populations and/or *ex situ* collections of threatened tree species |
| x | Threatened trees included in your collection |
| x | Threatened trees included in your collection with interpretation aimed at conservation awareness |
| x | Engage in or support *in situ* habitat restoration or habitat protection in support of priority threatened tree species (e.g. invasive species removal, land protection, reforestation, facilitating sustainable management planning) |
| x | Engage in or support *in situ* conservation of threatened tree species in the wild (e.g. population monitoring/surveys, reintroduction of seeds/seedlings, assisted migration) |
| x | Provide support to other arboreta to improve their capacity to participate in threatened tree conservation activities (e.g. provide training, financial support, mentorship, threatened tree germplasm/seeds, etc.) |
| x | Lead red listing initiative for trees within a taxonomic group or region |
|  | Contribute to BGCI led red listing for trees |
|  | Provide direct support to GTC (financial support, publishing/design support or expertise, other operational expertise, etc.) |
|  | OTHER ACTIVITIES NOT LISTED THAT SUPPORT THE MISSION OF THE GTC: |
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BGCI Botanic Garden Accreditation Conservation addendum

(Required for **Level III *and* Level IV** applicants wishing to be considered for BGCI Botanic Garden Accreditation):

In order to achieve BGCI Botanic Garden Accreditation, your institute must have a minimum of three of the following activities focused on plant conservation.

Please check all activities that your arboretum participates in and then provide a brief description of those checked activities and evidence for these activities below.

Examples of plant conservation activities can be found at: https://www.bgci.org/resources/bgci-tools-and-resources/accreditation-examples-ex-situ-conservation-activities/

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|  | Engagement with local or national policy makers on the development of National Biodiversity Strategies & Action Plans, or equivalents |
|  | Contribute to international plant conservation policy (e.g. the Global Partnership for Plant Conservation, CBD etc.) |
|  | Public displays with a conservation or environmental message |
|  | Public events designed to raise awareness of plant conservation and environment |
|  | Training courses on plant conservation attended by staff |
|  | Training courses on plant conservation policy, practice or communication offered, including at school student, undergraduate and postgraduate levels; fellowships |
|  | School programmes with plant conservation/environmental education component |
|  | Conservation volunteer programme in place |
|  | IUCN red listing or conservation assessments compiled at local, national or global levels |
|  | Publication of plant conservation, environmental, traditional knowledge research for policymakers, researchers, or the general public |
|  | Support staff with formal affiliation with BGCI, IUCN SSC specialist groups, or other conservation organisation |
|  | Horticultural trials carried out on native or threatened taxa |
|  | Propagation and germination studies carried out on native or threatened taxa |
|  | Publications on wild (non-domesticated) plant diversity |
|  | Wild species seed conservation |
|  | Wild species propagation |
|  | Exchange or supply of wild species material with other conservation practitioners or gardens |
|  | Field gene banks or ex situ collections managed for conservation purposes |
|  | Native species areas or gardens part of the living collection display |
|  | Restored and managed natural areas within garden |
|  | Conservation collections policy implemented |
|  | Plant health collections policy implemented |
|  | Invasive species policy implemented |
|  | Collections sourced and exchanged in full compliance with the Nagoya Protocol, the Cartagena Protocol and CITES |
|  | Gardens registered as national CITES rescue centres / refuges / training centres |
|  | Other conservation activities not listed above |
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**Provide a brief description of each activity checked above below and provide evidence that these activities are ongoing or completed within the last year.**

BGCI Botanic Garden Accreditation Sustainability addendum

(Required for **Level III *and* Level IV** applicants wishing to be considered for BGCI Botanic Garden Accreditation):

In order to achieve BGCI Botanic Garden Accreditation, your institute must have a minimum of two of the following activities focused on sustainability or ethical activities.

Please check all activities that your arboretum participates in and then provide a brief description of those checked activities and evidence for these activities below.

Examples of sustainability or ethical activities can be found at: https://www.bgci.org/resources/bgci-tools-and-resources/accreditation-examples-sustainability-and-ethical-activities/

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|  | Sustainability plan/documentation |
|  | Waste reduction, recycling schemes, or composting in place and on display to the public with appropriate interpretation |
|  | Renewable energy constitutes a proportion of the garden’s energy portfolio and energy conservation measures being implemented |
|  | Water saving or recycling schemes in place |
|  | ISO14001 or other recognised sustainability accreditation gained |
|  | Responsible sourcing of commodities and products sold in retail outlets |
|  | Responsible sourcing of materials and plants used by the organisation |
|  | Ethical funding policy in place |
|  | Leadership commitment to staff and visitor diversity and inclusion |
|  | Ecological sustainability in landscape management (e.g. fertiliser use, pesticide application, etc...) |
|  | Other sustainability or ethical activities not listed above |
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**Provide a brief description of each activity checked above below and provide evidence that these activities are ongoing or completed within the last year.**

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Submit APplication

Please attach at least two photos of your arboretum (high resolution JPEG format in landscape orientation), as well as your institution's logo (JPEG format), with your application for use in the accreditation press release and on the ArbNet website.

Please submit your completed

application via email:

**Email:** arbnet@mortonarb.org

For more information regarding

specific accreditation requirements:

**Visit:** arbnet.org/accreditation

**Call:** 630-310-7013

**Email:** arbnet@mortonarb.org