

Thais Almeida
Rio de Janeiro Botanical Garden
Rua Jardim Botânico, 1008, casa
9

Coordenação de Coleções Vivas

Rio de Janeiro, RJ 22460-000

Brazil



Botanic Gardens

Conservation International

Descanso House, 199 Kew Road,
Richmond, Surrey, TW9 3BW, U.K.

Tel: +44 (0)20 8332 5953

Fax: +44 (0)20 8332 5956

E-mail: info@bgci.org

Internet: www.bgci.org

14 October 2019

Grant Offer Letter for Rio de Janeiro Botanical Garden

Dear Thais Almeida,

I am writing to confirm that we have reviewed your recent application to our Global Botanic Garden Fund and have agreed to offer a grant of **USD 2372**. Your unique grant reference number is **GBGF 2019/005** and must be quoted in all correspondence.

Project Title: Conservation of the Rio de Janeiro Botanical Garden Cacti Collection

Institution: Rio de Janeiro Botanical Garden

Grant Reference: GBGF 2019/005

Grant Amount Offered: USD 2372

This Grant Offer Letter sets out the terms and conditions of our Grant.

The proposed Grant is for the project described in your application (attached). By signing this Grant Offer Letter you agree that the Grant will only be used for the delivery of the project and not for any other purpose without prior written approval from BGCI.

The project is to be completed by 31 December 2020. A final report on the project must be submitted by 31 December 2020 via the online reporting tool provided by BGCI. The report must include the following:

- A short narrative report describing the outcome of the project using the method of evaluation described in the application
- Photos and videos where applicable that BGCI might use
- A report of actual expenditure against the budget submitted with the application (a template will be provided by BGCI).

We need to monitor and evaluate the impact of our grants. If you do not provide sufficient information, or fail to take reasonable steps to provide sufficient information as outlined above, we reserve the right to obtain reimbursement of the Grant in full.

In the event that the Grant exceeds the total cost of the project, you will generally be required to reimburse any unused funds.

Charity Registration No. 1098834

Botanic Gardens Conservation International is a company limited by guarantee in the UK, No. 4673175.

BGCI is a worldwide membership organization established in 1987. Its mission is to mobilise botanic gardens and engage partners in securing plant diversity for the well-being of people and the planet.

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By accepting the Grant you agree that you will comply with the terms of the Grant as set out in this Offer Letter.

BGCI does not assume or accept any liability in any matter arising out of or incidental to the execution of the project.

We will make payment to the bank account specified on the Banking Information Form by 31 December 2019.

To accept the terms of this Grant, please return one signed copy of this Grant Offer Letter and the Banking Information Form to brian.lainoff@bgci.org by 31 October 2019.

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Grant Offer Signature Page

Signed on behalf of

Organisation Botanic Gardens Conservation International (BGCI)

Full Name Paul Philip Smith

Role Secretary General

Signature

Date 14 October 2019

Signed on behalf of

Organisation Rio de Janeiro Botanical Garden

Full Name

Role

Signature

Date

Charity Registration No. 1098834

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Global Botanic Garden Fund Application

Contact Information

Please provide your contact information.

Thais Almeida

Email

thidalgo@jbrj.gov.br

Phone

+55 21 38741208

Title

Tecnologist

Organisation

Rio de Janeiro Botanical Garden

Website

<http://www.jbrj.gov.br/>

Please provide the postal address of your institution.

Rua Jardim Botânico, 1008, casa 9
Coordenação de Coleções Vivas
Rio de Janeiro, RJ 22460-000
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Is your institute a member of BGCI?

Yes

Funding Sources

On this page, you can indicate if you wish for your proposal to be considered for unrestricted grant funding through the Global Botanic Garden Fund, restricted grant funding through the BGCI/ArbNet Partnership Programme, or the Minnesota Landscape Arboretum Grants.



Funding through **BGCI's Global Botanic Garden Fund** will support projects that work to achieve the targets of the [Global Strategy for Plant Conservation](#).

Grants through the **BGCI/ArbNet Partnership Programme** must focus on tree conservation, involve an international partnership between two institutions, and include at least one ArbNet accredited arboretum. Priority will be given to projects that target biodiversity hotspots and/or capacity building in developing countries.

BGCI/Minnesota Landscape Arboretum Grants may be used for any part of the gardens' work, operations, conservation, education or research. Grants are available for USD 1000.

Proposals may be submitted to all of the funding opportunities for which they are eligible, but only one grant will be awarded per successful proposal.

To learn more about what will be funded through BGCI's Global Botanic Garden Fund [click here](#).

Which of the following funding sources do you wish to submit your grant application?

- Global Botanic Garden Fund

Project Proposal

What is the title of your proposed project?

Conservation of the Rio de Janeiro Botanical Garden Cacti Collection

Executive Summary

The Brazilian Red List has 2953 endangered species and a study showed that only 21% of them were being ex situ conserved in Brazil. Eastern Brazil is one of the main centers of diversity for Cactaceae. In Brazil, we have 39 genera and 359 taxa, of which 131 are considered endangered by IUCN.

The history of our cacti collection started on 1912. Nowadays it has 400 native and exotic species, including 230 cacti species and 170 other succulent species. Although historical, this collection has gone through periods of neglect and has even been closed to the public for periods in the 1990s and early 2000s.

Since then, we had important improvements powered by partnerships with the private sector. This year we got a cacti specialist to take over, which improved the identification and cultivation of plants, allowing seeds from endangered species we have, to begin to be deposited in the institutional seed bank.

Due to the financial challenges that Brazil's going through, the sponsor will only be able to pay the curator's salary, leaving no funds for plant care next year. Additionally, one of the greenhouses needs repairs, but we don't have all the resources for it.

The political moment in Brazil has also been very unfavorable to the conservation of Brazilian biodiversity.

Regarding the endangered cacti species, in our collection we have 56 species and would like to add 15 more. But the costs for that are neither included in the institutional budget nor can be paid by the sponsor.

How much are you requesting to implement the proposed project?

2371.60

Please upload an itemised budget for your proposed project.



- [Conservation-of-the-Rio-de-Janeiro-Cacti-Collection-Budget.xlsx](#)

Aim and Objective

This project has three main objectives; the first one is to properly maintain a healthy cactus and succulent collection, preventing the disruption of cultivation funds that can be very detrimental to plant maintenance and may result in the loss of some of them, as well as harming the replication and propagation work we have been doing in the last few years and the seed deposit in the institutional bank that is starting this year. The second one is to partially repair one of the visiting greenhouses we have. For this work we already have the materials needed for the woodwork, needing only the values related to the purchase of glasses and paint. And the most important objective is to increase the number of threatened species represented in the collection through exchanges with other scientific institutions, seeking to achieve GSPC Target 8. Regarding the endangered cacti species under cultivation in our collection, we have been working to increase this number; in 2014 we had only 11 species, in 2017 we had 42 species and now in 2019, we reached the number of 56 Brazilian threatened species. Our goal for next year would be to increase by 15 the endangered species with complete provenance data through an exchange with specialists in Holambra (São Paulo state) and Belo Horizonte (Minas Gerais state).

Global Strategy for Plant Conservation

The number of threatened species listed in Brazil is high and is expected to grow in the coming years due to the mapping of Brazilian biodiversity, flora risk assessment still in progress and increasing anthropogenic pressures on natural populations.

To achieve GSPC Target 8, the collection of cacti and succulents from Rio de Janeiro Botanical Garden has established strategies and specific actions, such as the definition of priority species, the mapping of remaining populations and the systematic search for propagules in scientific expeditions.

Increasing the number of threatened species in cultivation is our purpose, but it can only be achieved if we're able to maintain these accessions in the collection over the years. With this project we'll be able to reach 71 threatened species in our collection, representing 54% of the list of threatened cacti in Brazil.

On top of the financial challenges that have already plagued Brazil for the past 3 years, the political moment in the country has also been very unfavorable to the conservation of Brazilian biodiversity and this is of great concern to us. Being the only federal botanical garden in the country, we are the most impacted by changes in strategic-political alignments arising from political changes.

Thus, it would be very helpful to be able to count on BGCI's support to maintain the Cacti collection by safeguarding the endangered species we already have and funding two trips for plant exchange with specialists.

Evaluation

We plan to evaluate the execution of this project by the renovation of the visitation greenhouse and its reopening for the public, the scientific and visitation collection in good health and an increase in the number to 71 endangered species under cultivation in the year 2020.

Additional and Matching Funding

While neither additional or matching funding is a requirement for the Global Botanic Garden Fund, BGCI would like to know if the project has additional support.

Do you have additional funding for your proposed project?

No



If you are successful in this grant application, do matching funds become available?

Yes

Who is providing the matching funds?

Private Sponsor for the curator's salary and Institutional budget from Rio de Janeiro Botanical Garden

Please describe how the matching funds will be used.

We were able to secure a sponsor to pay the salary of the cactus specialist curator in 2019/2020. Working under his supervision in the cactus collection are two gardeners and a part-time intern, that is currently dedicated to computerizing the collection in the institutional data system of the Rio de Janeiro Botanical Garden (Jabot - <http://rb.jbrj.gov.br/v2/consulta.php>). These personnel are hired with the institutional budget. Also of great value, are the 7 volunteers who collaborate in the care of the plants of this collection.

An Institutional vehicle will be used for the plant exchange trip. For the greenhouse repairs, we already have the materials needed for the woodwork and we can count on the institutional team to conduct the repairs and painting, needing only the values related to the purchase of glasses and paint.

Please provide any additional information you wish to be included in your grant application.

Please feel free to provide any supporting documentation and upload them below.

- [Conservation-of-the-Rio-de-Janeiro-Botanical-Garden-Cacti-Collection-Images.pdf](#)

Data Information

BGCI will use the information you provide to determine if your project will be funded by the Global Botanic Garden Fund.

Successful projects may be promoted through any or all BGCI, ArbNet, or Minnesota Landscape Arboretum communication channels. As such, BGCI may request additional information to support the promotion of successful projects such as photos, statements and more.

Have you completed this application to the Global Botanic Garden Fund to your satisfaction?

- Yes

Conservation of the Rio de Janeiro Cacti Collection



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GARDENS**
CONSERVATION
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Project Budget for Application to BGCI's Global Botanic Garden Fund	Project Info				Budget Summary	
	Institution:		Rio de Janeiro Botanical Garden		Total Budget	
	Project Lead:		Thais Hidalgo de Almeida		\$ 2,372	
	Staff Time		Equipment/Supplies		Other Costs	
Equipment and Supplies	Hrs	Rate/Hour	Units	\$/Unit	Other	Budget
Glasses for the greenhouse			25	\$33.00		825.00
Paint for the greenhouse (gallon)			3	\$26.00		78.00
Fertilizers (urea, potassium sulfate, calcium nitrate, limestone)			24	\$17.00		408.00
Gravel (m3)			7	\$32.00		224.00
Vermiculite (100l)			1	\$36.00		36.00
Subtotal of Equipment and Supplies						\$ 1,571
Other Budget Items (Travel, etc...)	Hrs	Rate/hour	Units	\$/Unit	Other	Budget
Travel fuel					330.00	330.00
Trip food and lodging					255.00	255.00
Subtotal of Other Budget Items						\$ 585
					Subtotal of Project	\$ 2,156.00
					Overhead Percentage (Maximum of 10%)	10%
					Overhead	\$ 215.60
					Total Project Budget (Maximum \$2,500)	\$ 2,371.60