

**Sa\100038**

**Securing the Tulips and Tulip  
Villages of Kyrgyzstan**

**Brockington, Samuel | Cambridge University Botanic Garden**

---

**Funding sought**  
**Project start/end**

**£7,849.00**  
**15 Jul 2018 - 2 Aug 2018**

---

## 1. Contact Details

---

### Q1. Lead applicant contact details

Please enter the contact details for the lead applicant. The lead applicant is the same as the Flexi-Grant account holder. Please note that the Flexi-Grant account holder will be the only contact point for the application.

Samuel Brockington

---

Primary Applicant

Cambridge University Botanic Gardens, 1  
Brookside, Cambridge, United Kingdom,  
CB21JE, United Kingdom

### Q2. Lead organisation contact details

Please enter the applicant organisation details

Cambridge University Botanic Garden

---

Cambridge University Botanic Garden, 1  
Brookside, Cambridge, United Kingdom,  
CB21JE, United Kingdom

Please add any 'Committee Feedback' to the field below:

|

**Please add any 'Specific Ineligibility' feedback to the field below:**

|

**Please add any 'Conditions' to the field below:**

|

**Please add any 'Positive Feedback' to the field below:**

|

## 2. Title & Location

---

### Q3. Working title of the proposed Darwin project

Securing the Tulips and Tulip Villages of Kyrgyzstan

### Q4a. Host country (of proposed Scoping trip)

Kyrgyzstan

### Q4b. Other collaborating country/ies

United Kingdom

### Q5. Is this a resubmission of a previous scoping application?

No

### 3. Scoping Principals & Lead Organisation Summary

---

#### Q6. Principals in Scoping work i.e. the travellers

Please give the details of the individuals (up to 2) from the lead organisation who would be directly involved in the Scoping work - i.e. making a visit to a host country. One page CVs must be provided.

Details	Main traveller	Second traveller
<b>Surname</b>	Brockington	Angela
<b>Forename(s)</b>	Samuel	Cano
<b>Post held</b>	Curator	Assistant Curator
<b>Department</b>	Cambridge University Botanic Garden	Cambridge University Botanic Garden
<b>Telephone/Skype</b>		
<b>Email</b>		
<b>Country travelling from</b>	United Kingdom	United Kingdom
<b>Please attach the traveller's CV</b>		

#### Q7a. About the lead applicant organisation

**Briefly discuss your expertise in sustainable use or conservation of biodiversity and/or development. Please refer to recent track record you have in this field. You may be asked to provide evidence of this track record.**

The Cambridge University Botanic Garden (CUBG) maintain a living collections of approximately 8000 species, and 16,000 accessions including several hundred species known to be at risk of extinction. The CUBG Curator has recently published high impact articles that explore the conservation value of the global network of botanic garden, highlighting priorities to achieve GSPC targets including the protection of threatened species. The Curator also has expertise in phylogenetics, population

genetics, and niche modelling of species distributions that is relevant to conservation projects generally, including the one proposed here. As an institution, CUBG have a strong track record in delivering on collaborative projects that combine horticultural expertise with ex-situ conservation linked to species re-introduction. For example our conservation project for the Fen Orchid (*Liparis loeselii*) couples expertise in germinating and cultivating the fen orchids in our collections, combined with a species restoration and monitoring scheme of wild populations co-managed by the CUBG and our in-field partner Plant Life. We are the holders of nine national collections, that include Tulips, and so have special expertise in the cultivation and maintenance of ex-situ collections of Tulips, that is relevant here.

**Q7b. Would you like to include a letter of support from the lead applicant?**

Yes

**The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.**

## 5. Project Partners

### Q8. About the partner organisation(s)

Please list all the partners involved and explain their roles and responsibilities in the Scoping work. Briefly discuss your partner's expertise in sustainable use or conservation of biodiversity and/or development. Please refer to recent track record they have in this field. You may be asked to provide evidence of this track record. If there is more than 1 partner organisation, you can enter the details of more partners below. Please specify which of the partners is new to the partnership.

<b>1. Partner Name:</b>	Fauna & Flora International (FFI) – Kyrgyzstan
<b>Website address:</b>	<a href="https://www.fauna-flora.org/countries/kyrgyzstan">https://www.fauna-flora.org/countries/kyrgyzstan</a>
<b>Details of anticipated roles and responsibilities:</b>	FFI will assess and integrate community needs into the project. They will scope sustainable use of wild tulips and information on tulip flower, bulb and seed sales, as well ecotourism markets. They will also explore the cultural and wellbeing connections with tulips.
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	FFI has been running biodiversity and livelihoods projects in Kyrgyzstan over the last 20 years working with a wider range of local partner. They have run a series of projects in the past 10 years in the Fruit and Nut Forests of Kyrgyzstan, and also Tajikistan, looking at the sustainable use of Non-timber Forest Products in these floral diverse sites; connecting species conservation and forest health to local livelihoods and wellbeing. They also ran a small grants programme to local communities around protected areas in Kyrgyzstan to improve livelihood, while reducing pressures on the reserves.
<b>Name of main contact point and post held:</b>	Vicky Wilkins, Central Asia Programme Manager
<b>Would you like to include a letter of support from this organisation?</b>	<input checked="" type="radio"/> Yes

<b>Letter of Support:</b>	<b>The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.</b>
---------------------------	---

**Do you have more than one partner involved in the Scoping work?**

Yes

<b>2. Partner Name:</b>	Bioresurs
<b>Website address:</b>	No website, email: alhor6464@mail.ru
<b>Details of anticipated roles and responsibilities:</b>	<p>“Bioresurs” role in the project will include the study of habitats of distribution of 25 tulip species and their mapping, as well as development of theoretical and practical foundations for conservation and reproduction of the most vulnerable and threatened species.</p>
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	<p>Bioresurs is a local NGO affiliated with the National Academy of Sciences with 10 years of research and conservation project experience, in such areas as study of rare and threatened apple species (the Niedzwetzky apple), applying innovative approaches to farming, e.g. growing quinoa and valerian root, planting greens in small towns, working on problems of soil salinization and others. Bioresurs is the only NGO that has expertise on tulip species. The president of the NGO is Kyrgyzstan’s national expert on tulips. The key botanist of the Kyrgyz Republic, Dr. Georgy Lazkov, is part of the Bioresurs team. Other members of the team include young scientists of the National Academy of Sciences. Together they will deliver the knowledge gathering component of the project. The NGO is also closely affiliated with the Gareev Botanical Garden of the National Academy of Sciences and will provide links to the Garden.</p>



<b>Name of main contact point and post held:</b>	Kaiyrkul Tunkatarovich Shalpykov President Public Fund "Bioresurs"
<b>Would you like to include a letter of support from this organisation?</b>	<input checked="" type="radio"/> Yes
<b>Letter of Support:</b>	<div style="border: 1px solid gray; height: 80px; width: 100%;"></div>

<b>3. Partner Name:</b>	
<b>Website address:</b>	
<b>Details of anticipated roles and responsibilities:</b>	
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	
<b>Name of main contact point and post held:</b>	
<b>Would you like to include a letter of support from this organisation?</b>	<input type="radio"/> Yes <input type="radio"/> No

<b>4. Partner Name:</b>	
<b>Website address:</b>	
<b>Details of anticipated roles and responsibilities:</b>	
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	

<b>Name of main contact point and post held:</b>	
<b>Would you like to include a letter of support from this organisation?</b>	<input type="radio"/> Yes <input type="radio"/> No

<b>5. Partner Name:</b>	
<b>Website address:</b>	
<b>Details of anticipated roles and responsibilities:</b>	
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	
<b>Name of main contact point and post held:</b>	
<b>Would you like to include a letter of support from this organisation?</b>	<input type="radio"/> Yes <input type="radio"/> No

<b>6. Partner Name:</b>	
<b>Website address:</b>	
<b>Details of anticipated roles and responsibilities:</b>	
<b>Expertise in sustainable use or conservation of biodiversity and/or development:</b>	
<b>Name of main contact point and post held:</b>	

<b>Would you like to include a letter of support from this organisation?</b>	<input type="radio"/> Yes <input type="radio"/> No

**Q9. Can you confirm that none of the partners (excluding the lead applicant) have led a Darwin Initiative Main Project before?**

No

**Please provide further details**

One partner has led a Darwin Initiative application in the past this is FFI Kyrgyzstan. We checked before applying to confirm that it would not be a problem with the Darwin Initiative, and was confirmed by e-mail. It is important for the development of the project to have FFI Kyrgyzstan involved because of their sustainable use and local community expertise, also combined with their wider biodiversity understanding of the country. This is also important as expertise and partners in Kyrgyzstan are limited here and we feel they FFI are the best partners for us to work with for these aspects.

## 6. Justification & Concept Notes

---

### Q10. Justification of need for a Scoping Award

**Please provide written details of why alternative funding is not available from within your own organisation or from other sources. Will matched funding be provided?**

The CUBG does not have un-restricted funds to provide initial funding for this scoping trip, but does have the capability to support ex-situ collections of endangered tulip species within its current operational framework. We also will be contributing our staff expertise in terms of knowledge of maintaining and propagating tulip species in ex-situ sanctuaries, and in assessing population diversity. The Curator has applied for a NERC iCASE PhD studentship, in collaboration with FFI and BGCI, to secure a student to do basic taxonomic, population genetic work, and red-listing of endemic tulip species in Kyrgyzstan. Although not matching funding per se, if funded, this will provide additional staff and expertise on an important component of this project going forward. But a scoping project with in-country experts will be essential to inform and direct this additional graduate student funding stream before it becomes active.

### Q11. Concept note for the Scoping Award

**This question concentrates on the scoping study work and should demonstrate the objectives of the Award including:**

- objectives of the visit
- what work (including research, remote communications or other collaborations) has been carried out prior to applying for this Award
- what work will be carried out under the Award – please see the guidance for advice on what type of activity can be funded
- evidence of the proposed partners' intentions to collaborate in your Scoping work

The endemic tulips of Kyrgyzstan are iconic and are found in the lower montane sites; however increasing pressures from tourism and collection are resulting in their degradation and decline. This loss of tulips is also impacting the communities that rely on them for an income. The objective of the visit is to better understand the status, threats and solutions within Kyrgyzstan's tulip villages; and to work with the communities as well as local and international partners to develop a project that will improve the numbers and the status of tulips, while educating and empowering the communities that rely on them to increase their income and overall standards of living.

Work carried out to-date includes collation of expert understanding on the tulips on the threats, status and distribution of the tulips, and their use by local communities (tulips villages). This has been facilitated through desk research and together with a series of remote meetings to establish an initial project team, to define and discuss on the nature and content of a scoping trip.

The award a scoping a trip would undertake series of visits to villages and sites of tulip diversity across the tulips' distribution to understand the scale and nature of the threats, and define focus and content. The trip will also allow the partners to spend

time discussing and defining the content of project as a group. After the field trip the team would also spend two days in workshops working collaboratively on the content of the project, and clarifying roles and responsibilities etc.

Evidence of partners' intentions to collaborate, we have been having a series of discussions and had skype calls with partners and partners have contributed to defining the content and the nature of the trip. In addition we have included in this application letters of support from partners.

## **Q12. Concept note for the resultant project**

**This question concentrates on the full Darwin application you intend to submit after the Scoping Award and should discuss:**

- the expected outcome and outputs of the resultant Darwin project
- how the resultant Darwin project would meet a need in the host country (and the wider region if applicable e.g. if the proposed project would be based in a UMIC)
- how the project would contribute to any or all of the following Conventions: the Convention on Biological Diversity (CBD); the Nagoya Protocol on Access and Benefit-sharing (ABS); the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA); the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
- how the project will contribute to sustainable development in the country concerned
- briefly what the proposed partner's/s' expected role in the resultant Darwin project will be
- briefly the expected role of the Scoping travellers in the resultant Darwin project.

### **Project outcome**

Increase the sustainability of populations of Kyrgyzstan endemic tulips by increased protection and empowering montane communities 'the tulip villages' to create sustainable ecotourism and non-damaging cultivation/harvesting improving local livelihoods.

### **Outputs**

Increased knowledge and understanding:

- Collection of tulips to provide sources for nurseries and the establishment of national & ex-situ collections
- Surveying and mapping of tulip populations, plus threat and population diversity assessments

Ecotourism development and cultivation:

- Establishment of community tulip sanctuaries to protect priority sites
- Community engagement on threat assessments and establishment of sustainable cutting and bulb collection protocols.
- Market development to improve the income received by from bulb, seed and flower sale as well as ecotourism

Awareness raising and involvement in conservation:

- Community education activities celebrating the importance and value of wild tulips, working with the local communities and schools to increase tulip numbers

- Local festival of flowers to encourage protection and reduce picking.
- Training of rangers on tulip management and ensuring the inclusion of threatened tulips in reserves management plans.

#### Need in the host country

There are 25 wild species (roughly 20% of all tulip species), including six global endemics and 11 nationally threatened. The main threats are over-exploitation, due to unsustainable picking and collection for tourists and trade, and livestock damage. These threats together with a lack of knowledge, no formal protection, no management of sites or harvesting, and low public awareness; makes the future of wild tulips an urgent issue. Tulip tourist tours and the sales of flowers and bulbs support the local communities. The loss of these species will remove a critical income source from local communities.

#### Contribution to Conventions

Improving the conservation and protection of endemic wild tulip species will contribute to: Article 8 (in situ conservation) and Aichi targets: 12 (prevention of extinction) and 13 (maintaining genetic diversity of cultivated species). Communities will be supported to develop their livelihoods and to influence land management, contributing to CBD Article 10 (sustainable and equitable use) and to Aichi targets 1 (awareness of sustainable principles), 4 (sustainable production methods) and 18 (respect for traditional knowledge).

#### Contribution to sustainable development

There are high poverty levels in these regions and this project will help relieve this (SDG 1.1) by working with both men and women (1.2, 5.5, 5a: equal relief of poverty and resource rights) to improve productivity and market access (2.3, 2a, 2c) and community management of resources (1.4). The project will also preserve genetic diversity for cultivated species (2.5), putting the plans in place to manage the project sites sustainably (12.8, 15.1, 15.2, 15.4) and equitably (15.6).

#### Proposed partner roles

CBG will deliver taxonomic, horticultural, and ex-situ conservation expertise  
 FFI will deliver sustainable use and market improvement components.  
 Bioresurs will deliver the knowledge gathering and local expertise on tulips.

#### Role of the scoping travellers

Drs Brockington and Cano will assess the tulip populations, sampling material for taxonomic and horticultural work, take GIS data, and evaluate the work needed for taxonomic and population level treatments including red-listing.

## 7. Costs

### Q13. Costs

Provide a detailed breakdown of costs to be funded by the Darwin Initiative in GBP.

	Main traveller	Second traveller	Total
Airfare including travel to airport			1,700.00
Visas and other travel documents			200.00
Total daily subsistence claimed (please provide details below)			1,330.00
Workshop costs (please provide details below)			£597.00
Other costs (please provide details below)			£4,022.00
		<b>Total request from Darwin (must not exceed £10,000)</b>	7,849.00

### Additional details to support the figures above

	Main traveller	Second traveller
Daily subsistence rate per day	£35.00	£35.00
Number of days subsistence claimed (max 30 days per traveller)	19	19

### Workshop costs

Please provide further details on your workshops costs.

Partner meeting costs

1 room £76 per day for 2 days: £152

Lunch and coffee for 20 people for two days £10 per person £400

Subsistence for partner costs in Bishkek 3 nights (£15 per night) £45

### **Other costs**

**Please provide further details on your other costs.**

Scoping village trip and meetings 14 days with a team of 6 partners plus lead (costed separately)

Petrol: £350 (5,000km)

Vehicle rent £38 per day: £532

Subsistence (£35) for 6 people for 14 days: £2940

Costs expenses for meetings and field trips country: £200



## 8. Timetable & Activities

---

### Q14. Activities and timings

Please complete the Scoping Award Timetable to include your anticipated dates of travel (start and finish) and activities to be undertaken on your trip. N.B.: this question is specifically about your travel plans – your dates and specific milestones during travel – NOT your timetable to Stage 1 application. Your application will be considered ineligible if this section does not specifically cover your planned scoping trip.

Date	Milestone
15/07/2018	<b>START</b>
15/07/2018	Travel to Bishkek
16/07/2018	Prep for Trip
17/07/2018	Start field visits to tulip villages for meetings and visiting key tulip sites
30/07/2018	Travel back to Bishkek
31/07/2018	Workshop day 1
01/08/2018	Workshop day 2
02/08/2018	Back to Bishkek
02/08/2018	<b>FINISH</b>

**Q15. In what year would you expect to submit the full Darwin project application?**

Round 25

## 9. Certification

---

### Q16. Certification

On behalf of the

company

of

Cambridge University Botanic Garden

I apply for a grant of

£7,849.00

in respect of all expenditure to be incurred during the lifetime of this project based on the activities and dates specified in the above application.

I certify that, to the best of our knowledge and belief, the statements made by us in this application are true and the information provided is correct. I am aware that this application form will form the basis of the scoping schedule should this application be successful.

*(This form should be signed by an individual authorised by the applicant institution to submit applications and sign contracts on their behalf.)*

- I have uploaded CVs for project principals
- I have uploaded letters of support from the lead application organisation and the partner(s)



<b>Name</b>	Samuel Brockington
<b>Position in the organisation</b>	Curator
<b>Signature (please upload e-signature)</b>	

**Date**

02/02/2018

**If this section is incomplete the entire application will be rejected.**

## 10. Submission Checklist

---

### Checklist for submission

	Check
Have you provided anticipated start and end dates for your Scoping trip?	<input checked="" type="checkbox"/>
Has your application been signed by a suitably authorised individual?	<input checked="" type="checkbox"/>
Have you read the Guidance documents for both <u>Main projects</u> and <u>Scoping awards</u> , and are you satisfied that your concept would be eligible for a main project application?	<input checked="" type="checkbox"/>
Have you read the current <u>Terms and Conditions</u> for this fund and can you confirm you are willing to be bound by these if your application is successful?	<input checked="" type="checkbox"/>
Have you uploaded 1 page CVs and letters of support as required?	<input checked="" type="checkbox"/>
Have you checked the <u>Darwin website</u> immediately prior to submission to ensure there are no late updates?	<input checked="" type="checkbox"/>