



**Submit by Friday 20 February 2009**

## **APPLICATION FOR DARWIN FELLOWSHIP PROGRAMME ROUND 16**

Please read the Guidance Notes before completing this form. Where no word limits are given, the size of the box is a guide to the amount of information required. Information to be extracted to the database is highlighted blue.

**1. Name and address of UK Host organisation** (NB: Notification of results will be by post and addressed to the main UK Expert listed in Section 5)

<b>Name: Department of Geography, University of Cambridge</b>	<b>Address: Downing Place, Cambridge, CB2 3EN</b>
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**2. Name and official address of proposed Darwin Fellow** (including contact details where available)

<b>Samuel Mutisya, Ecological Monitoring Department, Ol Pejeta Conservancy, Private Bag, Nanyuki 10400, Kenya;</b>
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**3. Project dates, duration and total Darwin Initiative Grant requested**

<b>Proposed start date:</b>	<b>Duration of project:</b>		<b>End date:</b>
<b>Darwin funding requested</b>	<b>2009/10</b>	<b>2010/11</b>	<b>Total</b>
	<b>£22,210</b>	<b>£9,700</b>	<b>£31,910</b>

**4. Summary of proposed Fellowship (no more than 100 words)**

<b>We propose that Samuel Mutisya undertakes a MSc in Conservation Biology at the Durrell Institute for Conservation Ecology (DICE), University of Kent. The course is comprised of six months of course work and six of months of independent research resulting in a written dissertation.</b>
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**5. Principals in the Project.** Please give the details of the individuals from the UK host organisations (and other institutions if relevant) who would be directly involved in supervising/working with the Darwin Fellow. Please provide a one page CV for each of these named individuals. You may copy and paste this table if you need to provide details of more than one overseas project partner.

Details	Main UK expert	Other UK expert	Other UK expert	Other UK expert
Surname	Adams	Graham		
Forename(s)	William	Max		
Post held	Professor	Research Associate		
Institution (if different to UK Host)				
Department	Geography	Geography		
Telephone				
Email				

**6. Describe briefly the aims, activities and achievements of the UK Host organisation. (Large institutions please note that this should describe your unit or department) (150 words)**

The Department of Geography at Cambridge has 34 academic staff, 360 undergraduates reading Geography and 100 graduate students. There are extensive computing and GIS resources, and a major library. The department's research addresses issues at the interface between human society and the natural world. These include: climate change and its impacts; biodiversity and poverty; natural resource conflict and the social and environmental dimensions of globalization. The Society, Environment and Development Cluster has 11 staff working on institutions, governance and sustainability. 62 PhD candidates graduated from the department between 1999 and 2004. There were 20-30 Masters students each year.

**7. Describe briefly the aims, activities and achievements of the proposed Darwin Fellow's employing organisation. (Large institutions please note that this should describe your unit or department) (150 words)**

The Ol Pejeta conservancy is the largest black rhino sanctuary in East Africa, covering 90,000 acres in Laikipia Kenya. The conservancy aims to conserve wildlife and to generate income through wildlife tourism and complementary enterprise for reinvestment in conservation and community development. The conservancy has successfully established the largest breeding population of black rhinos in Kenya, provides a sanctuary for other endangered large mammals (such as Cheetah and Grevy's Zebra), pioneered the management of problem elephants to alleviate human-elephant conflict, developed a successful community livestock fattening and marketing programme and built the capacity of neighbouring large-scale properties to conserve wildlife and benefit from wildlife-based tourism enterprises.

**8. Describe briefly the proposed Fellow's current role within their organisation and their link to a Darwin project, including the project reference number, his/her role in that project and any ongoing involvement. (200 words)**

Samuel is an ecologist working under the ecological monitoring department of the OI Pejeta Conservancy. His tasks include coordinating the monitoring of endangered mammals and vegetation within the sanctuary, the monitoring of identified 'problem' bulls that consistently break the conservancy's perimeter fence and raid crops on the neighbouring small-scale farms, data analysis (including the use of GIS software) and the production of reports to guide management decisions. He has been collaborating directly with Cambridge University through Darwin Initiative project 15/040 "building capacity to alleviate human-elephant conflict in north Kenya". This collaboration has taken the form of fence monitoring, the development of a problem elephant database and associated reporting system and the rolling out of this system to neighbouring areas. In addition Samuel has played a key role in trialling the STE/Cambridge University E-fence system whereby problem elephants are fitted with a GPS/GSM collar that sends early warning text messages when they approach OI Pejeta's perimeter fence and/or neighbouring small-scale farms.

**9. Provide a concept note on the Darwin Fellowship (maximum 1,000 words). This should include:**

- a clear outline of the aim and objectives of the Fellowship
- the role of the UK Host organisation, and others where relevant (including contacts)
- where appropriate, how the Fellowship will contribute towards sustainable development or sustainable livelihoods

The aim of the fellowship is to build local capacity within Laikipia to sustain the programme of human-elephant conflict alleviation and management initiated by Cambridge University under Darwin project 15/040. The OI Pejeta Conservancy is a key partner in the legacy strategy of this project as they are: 1) well resourced; 2) wholly committed to the not-for-profit aims of conservation and community support through their articles of association and; 3) committed to alleviating human-elephant conflict in the region. However OI Pejeta are short of technical expertise to properly design, monitor and report on their work and achievements to reduce human-elephant conflict. As a consequence management struggle to disseminate this information for the purpose of improving policy and practice in the wider region. In this regard Samuel Mutisya represents an ideal opportunity for both Cambridge University and the OI Pejeta Conservancy in that he has the ability to develop the necessary expertise, through the MSc in Conservation Biology, to plug the current professional gaps within OI Pejeta's management team to take OI Pejeta to the forefront of human-elephant conflict management in Laikipia and beyond. This fits within one of the main objectives of Cambridge University Darwin project 15/040 which is to create a local hub of expertise to facilitate human-elephant conflict alleviation in East Africa.

The MSc in Conservation Biology course has two elements, formal teaching from September to April and independent research resulting in the submission of a dissertation which is carried out between May and September. Within the taught component of the course there are four modules including: 1) applied resource economics; 2) managing protected areas; 3) sustainable resource use and; 4) communities, conservation and change. These modules are assessed through formal written examinations in December and April. The grounding provided by these modules will provide Samuel with the broader knowledge and skills to meaningfully contribute to conservation and community support for the OI Pejeta Conservancy but will more specifically enhance his ability to address the considerable challenges posed by human-elephant conflict in southern Laikipia. The taught component of the course also provides workshops twice a week, allowing Samuel to interact and debate with others involved in conservation from around the world and develop specific methodologies necessary for conservation action in the Laikipia context. For his dissertation we will support and encourage Samuel to investigate the effectiveness of the OI Pejeta Conservancy's approach for human-elephant conflict alleviation including various designs of electrified fences, the management of specific problem bulls (including de-tusking experiments) and community outreach.

Professor Nigel Leader Williams will be the applicant's academic supervisor. Professor Bill Adams and Dr Max Graham will provide Samuel with additional support and guidance in the design and development of written papers, where necessary but in particular with the dissertation.

Human-elephant conflict, in particular crop-raiding is a major barrier for small-scale farming in Laikipia affecting thousands of subsistence farmers every year and undermining food security in the area. A number of major initiatives have been initiated with the support from Darwin Project 15/040 but what is perhaps most relevant here is the construction of the west laikipia fence, which on completion will be 163 km in length. OI Pejeta will play a key role in ensuring this fence is effective by providing technical expertise for its maintenance and the management of consistent fence breaking elephants and it is here that Samuel will have a key role to play and

it is for these reasons that this fellowship is so important not only for OI Pejeta but the thousands of small-scale farmers that will depend on the west laikipia fence to secure their livelihoods.

**10. Legacy. Provide information on how the Darwin Fellow will utilise, promote and disseminate the benefits of the Fellowship on return to his/her home country. Will a strategy be developed during the Fellowship to ensure this is achieved? (200 words)**

The benefits of the fellowship will be utilised through Samuel's capacity as an officer working under the OI Pejeta Conservancy to monitor wildlife and conservation activities, assess their status/impacts and draw up plans for conservation action with particular reference to human-elephant conflict alleviation. OI Pejeta Conservancy has a well developed publicity department and the benefits of the fellowship will be promoted and disseminated through the OI Pejeta website, regular newsletters and through publicity generated through OI Pejeta shareholders/board members (the Arcus Foundation, Fauna & Flora International and The Lewa Conservancy). During the fellowship a plan will be drawn up by Cambridge University and the OI Pejeta Conservancy to ensure that a) the skills that Samuel develops through this fellowship are utilised effectively and are applied in support of the human-elephant conflict management component of OI Pejeta's operations; and b) that the fellowship is well publicised among OI Pejeta's visitors, donors, supporters and the wider public.

**11. How will the Fellowship assist the Fellow's organisation and/or local communities and/or home country in working towards the objectives (or implementation) of the CBD/CITES/CMS? Please refer to specific Articles or cross cutting themes as appropriate. (200 words)**

By building the capacity of a Kenyan conservationist, the fellowship will be directly supporting the Kenya government's article 12 of CBD. Article 12 will be further promoted and Articles 7 and 13 implemented through the fellow's role in training and research within the OI Pejeta Conservancy on his return to Kenya, after completing his MSc. Through OI Pejeta Conservancy, the fellow will also support the Convention on Migratory Species by working with large-scale ranches to the north to secure corridors for the continued movement of African elephants (Appendix 2 of the CMS). By alleviating human-elephant conflict the fellow will improve rural livelihoods and alleviate poverty in line with Kenya's commitment described in the national biodiversity strategy and action plan, developed in accordance with the international convention on biological diversity.

**12. What collaboration has there been with the Darwin Fellow to date in developing the proposal, and what collaboration is planned for the duration of the Fellowship? Where relevant, describe any consultation or collaboration by the proposed Fellow within his/her own country. (200 words)**

Samuel has been involved in developing this proposal to undertake post-graduate training in line with his aspirations to contribute more fully to human-elephant conflict management and the wider conservation programmes undertaken by the OI Pejeta Conservancy. There has already been specific collaboration between Cambridge University and OI Pejeta under project 15/040 to develop and roll out a programme for constructing and maintaining fences and identifying and monitoring problem elephants in southern Laikipia. Samuel has been key to this collaboration, compiling and collating the data, preparing reports including GIS maps and discussing their implications with major stakeholders. During the fellowship we intend to promote extend this collaboration by providing support to Samuel so that he is able to specifically assess the programmes implemented by OI Pejeta Conservancy and other local partners to manage human-elephant conflict as part of his MSc dissertation.

**13. Where will the Darwin Fellow be based? Please be specific with organisational details and dates (where more than one location). (200 words)**

If successful with this application, Samuel will be based at DICE, the University of Kent between September 2009 and May 2010. We envisage that Samuel will spend between June and August 2010 back in Laikipia in Kenya undertaking fieldwork for his dissertation before finally writing up and submitting in August/September 2010.

14. Provide a programme of work, including key milestones, through the duration of the Fellowship

Activity	Duration	2009/2010									2010/2011						
		J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
<b>Formal Training</b>																	
<b>Exams</b>																	
<b>Fieldwork</b>																	
<b>Dissertation write up and submission</b>																	

**15. Financial Aspects. Please use UK Government Financial Years ie April 2009 – March 2010 etc)**

<b>Fellow payment</b>			
	09/10	10/11	
London: £1200/month	Number of months		2009/10 £
			2010/11 £
UK (outside London): £1000/month	Number of months		
Overseas location £ /month*	Number of months		£
			£
<b>Host Organisations' costs</b>			
	09/10	10/11	
UK: £300/month	Number of months		2009/10 £
	7	6	2010/11 £
Overseas location: £ /month*	Number of months		£
			£
<b>A. Total Fellow &amp; Host Organisation Costs</b>			

<b>Actual travel costs (Return journey to Fellowship location)</b>		
	2009/10	2010/11
Return airfare. <i>Details</i>	£	£
Travel to/from airports. <i>Details</i>		
Visas etc. <i>Details</i>		
<b>B. Total Fellowship Travel Costs (Actual costs up to £2000 will be paid)</b>		

<b>Actual travel costs 'Additional Travel'</b>		
<b>Specify purpose. Maximum £500 within country of Fellowship location, £1500 for international travel.</b>		
	2009/10	2010/11
Airfares <i>Details</i> Workshops, Seminars local and research project travel expenses (africa)	£	£
Subsistence <i>Details (including number of days)</i> <i>Contact the Darwin Applications Unit for rates</i>		
Travel to/from airports. <i>Details</i>		
Visas etc. <i>Details</i>		
<b>C. Total (Other travel) costs</b>		
<b>D. ACADEMIC FEES</b> <i>MSc in Conservation Biology Course Fees for overseas students</i>	2009/10	2010/11
<b>TOTAL FELLOWSHIP COSTS (A + B + C + D)</b>		

\* Figures available from the Darwin Applications Unit Tel: 0131 440 5180

**16. Other sources of funding: provide details and amounts**

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**FCO NOTIFICATION**

Please check the box if you think that there are sensitivities that the Foreign and Commonwealth Office will need to be aware of should they want to publicise details of the Darwin Fellowship and the resultant work in the UK or the Darwin Fellow's home country

**CERTIFICATION**

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 project schedule should this application be successful.

I enclose CVs for project principals and letters of support as requested in the Guidance Notes.

<b>Name (block capitals)</b>	
<b>Position in the organisation</b>	

**Signed**

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**Date:**

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## Fellowship Application - Checklist for submission

	Check
Have you provided actual start and end dates for the Fellowship?	
Have you provided your budget based on UK government financial years ie 1 April – 31 March?	
Have you checked that your budget is complete, correctly adds up and that you have included the correct final total on the top page of the application?	
Is the concept note within 1,000 words?	
Has your application been signed by a suitably authorised individual? <b>(clear electronic or scanned signatures are acceptable)</b>	
Have you included a 1 page CV for the proposed Fellow and the UK experts listed in Section 5?	
Have you provided the relevant letters of support?	
Have you included a copy of your most recent annual report and accounts? <b>An electronic link to a website is acceptable.</b>	
Have you read the Guidance Notes?	

Once you have answered Yes to the questions above, please submit the application, not later than 2359h GMT on **Friday 20 February 2009** to [Darwin-Applications@ltsi.co.uk](mailto:Darwin-Applications@ltsi.co.uk) using the name of the proposed Fellow as the subject of your email. If you are e-mailing supporting documentation separately please include in the subject line an indication of the number of e-mails you are sending (eg whether the e-mail is 1 of 2, 2 of 3 etc). In addition, a hard copy of the application and any supporting documents not available electronically should be submitted to the Darwin Applications Management Unit, c/o ECTF, Pentlands Science Park, Bush Loan, Penicuik EH26 0PL postmarked not later than **Monday 23 February 2009**.

**DATA PROTECTION ACT 1998:** Applicants for grant funding must agree to any disclosure or exchange of information supplied on the application form (including the content of a declaration or undertaking) which the Department considers necessary for the administration, evaluation, monitoring and publicising of the Darwin Initiative. Application form data will also be held by contractors dealing with Darwin Initiative monitoring and evaluation. It is the responsibility of applicants to ensure that personal data can be supplied to the Department for the uses described in this paragraph. A completed application form will be taken as an agreement by the applicant and the grant/award recipient also to the following:- putting certain details (ie name, contact details and location of project work) on the Darwin Initiative and Defra websites(details relating to financial awards will not be put on the websites if requested in writing by the grant/award recipient); using personal data for the Darwin Initiative postal circulation list; and sending data to Foreign and Commonwealth Office posts outside the United Kingdom, including posts outside the European Economic Area. Confidential information relating to the project or its results and any personal data may be released on request, including under the Environmental Information Regulations, the code of Practice on Access to Government Information and the Freedom of Information Act 2000.