IAESTE United Kingdom

WORK OFFER Ref. No. **UK-2016-306-03**

Employer Information

Employer:
Glasgow Caledonian University
70 Cowcaddens Road

G4 0BA Glasgow
Scotland
United Kingdom

Website: http://
Location of placement: Glasgow
Number of employees: 500+
Working hours per week: 40
Working hours per day: 8

Business or products: R&D

Student Required

Field of Studies:
IT, Artificial Intelligence; Computer Science

Study Level:
End (7 or more semesters)

Specialization:
Computer Engineering; Mechatronics

Language required:
English   excellent

Other requirements:
MATLAB, technical report writing, presentation skills
Applicable math; programming skill

Work Offered

Work description:

An estimated one-third of all food consumed by humans is the result of animal pollination. Bees in particular are prolific pollinators due to co-evolution between them and theflowering plants from which they extract food. The global pandemic of colony collasp disorder has thus stirred substntial concern for the general welfare of all humanity. When pollination is needed on a large scale, such as for field crops, orchards, or commercial seed production, honeybees or other pollinators are cultured and provided for pollination management. Flower recognition is one of the key techniques for artificial pollination. This project will develop a practical short-term solution to this issue.

The recognition of flowers from photographs implies several steps, starting with the localisation of the flower in the image, followed by identifying and extraching the specific characteristics of this flower, and finally finding the best match. The solution proposed in this report includes the following elements; specific research on plants and on existing method, a segmentation algorithm based on user's inputs, implementation of several visual feactures suitable for flower differentiation. Computational intelligence (CI) is a set of nature-inspired approches which offers a wealth of capability for complex problem solving.

Number of weeks offered:	6 - 8	*Working environment:*	Office Work
Within the months:	06-JUN-0016 to 26-AUG-0016		
Or within:		*Gross pay:*	268.00 GBP weekly
Holidays:		*Deduction to be expected:*	

Accomodation

Lodging will be arranged by:	Trainee	*Estimated cost of lodging:*	100.00 GBP weekly
		Estimated cost of living:	

Additional information

Nomination information

Deadline for nomination: 30-MAR-2016   Please send nominations by IntraWeb

Date: 22-MAR-2016 *On behalf of receiving country:* Wendy Waring