

**Post:** Postdoctoral Fellow in Legume Science

**Department:** Tropical **Division:** Science

## **Job Description**

## **Key Responsibilities**

- Bioinformatics analysis and phylogenetics of hybrid capture DNA data and analysis of trait evolution
- Selection and Extraction of c. 200 samples spanning Papiliondeae for DNA sequencing
- Produce draft assembly of Rhizobial genomes
- Paper writing, conference presentations and other outputs
- Other duties as agreed with line management

## **Specific Responsibilities**

- Identify taxa for DNA extraction, obtain collating from existing collections and submit samples for sequencing.
- Analysis of initial (existing) DNA sequence datasets (adding new data as it is received)
- Paper preparation
- Conference attendance (International Legume Conference, International Legume Society Conference)
- Engagement with LPWG and other legume research groups

## **Person Specification**

Skills/Aptitude:	Essential requirements	Desirable for post
	requirements	ioi post
Primary		
Bioinformatics:		
Analytical and coding expertise in molecular bioinformatics,	Х	
including experience in handling next generation sequencing		
(NGS) genomic data		
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Scripting using languages such as bash, Python, R etc	Х	
		Х
Experience in dealing with hybrid capture DNA sequence data		
		Χ
Specific experience of phylogenetic analysis using large		
datasets of next generation DNA sequence data		Х
Experience studying trait evolution in phylogenetic contexts		^
	X	
Excellent Interpersonal skills		
Musting and submitting manage for publication	Х	
Writing and submitting papers for publication  Maybe: experience in working with non-model organisms (or		
plants)		
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Secondary		
Molecular biology lab skills	Х	
Experience of DNA extraction and quantification	Χ	Х
Experience of Divi excludion and quantification		Λ.

Knowledge:	Essential requirements	Desirable for post
Bioinformatics of NGS DNA sequence data	Х	
Knowledge of biodiversity genetics/genomics	x	
Knowledge of current sequencing technology wet lab protocols		Х
Knowledge of HPC and virtual machine management		Х
Knowledge of plant systematics and evolution		X

Professional Qualifications:	Essential requirements	Desirable for post
PhD or similar experience in Plant Science, Genomics or related field	X	