



Cynorthwydd Ymchwil Ôl-ddoethurol mewn Biowybodeg Gweiriau Porthiant a Chodlysiau

Athrofa y Gwyddorau Biolegol, Amgylcheddol a Gwledig

Cyfnod penodol hyd at 31 Mawrth 2020

Gradd 7: £32,958 - £38,183 y flwyddyn

I hyrwyddo gweithlu hyblyg, bydd y Brifysgol yn ystyried ceisiadau gan unigolion sy'n ceisio am swydd gyda threfniadau gweithio llawn amser, rhan amser, rhannu swydd, neu yn ystod y tymor yn unig.

Mae Athrofa'r Gwyddorau Biolegol, Amgylcheddol a Gwledig (IBERS) yn ganolfan addysg, menter ac ymchwil o'r radd flaenaf ym Mhrifysgol Aberystwyth. Mae hi'n ganolfan ragoriaeth a gydnabyddir yn rhyngwladol a hon yw dewis y myfyrwyr ar gyfer astudio'r gwyddorau biolegol, amgylcheddol a gwledig.

Rydym yn awyddus i recriwtio Cynorthwydd Ymchwil Ôl-ddoethurol mewn Biowybodeg o fewn rhaglen Strategol Craidd y BBSRC ar gyfer Cnydau Gwydn. Bydd yr ymgeisydd llwyddiannus yn dadansoddi setiau data aml-omeg i ddeall y cysylltiad rhwng genoteip, ffenoteip a'r amgylchedd er mwyn ceisio canfod genynnau a llwybrau sy'n gysylltiedig â nodweddion manteisiol. Bydd allbynnau'r prosiectau hyn o gymorth i ddeall nodweddion planhigion cynydu allweddol, a gallent arwain at lu o effeithiau posibl ym maes biotechnoleg ac amaethyddiaeth sy'n canolbwyntio ar weiriau porthiant a chodlysiau.

Gellir gwneud ymholiadau anffurfiol drwy gysylltu ag Prof Iain Donnison neu isd@aber.ac.uk.

Cyf: IBERS.17.1410

Am fwy o wybodaeth ac i ymgeisio, ewch i <http://jobs.aber.ac.uk>.

Sefydliad Dwyieithog sy'n gweithredu Cynllun Iaith Gymraeg ac yn ymroddedig i Gyfle Cyfartal.

FEL ARFER FE BENODIR I SWYDDI O FEWN 4-8 WYTHNOS WEDI'R DYDDIAD CAU.



**Post-Doctoral Research Assistant in Bioinformatics of Forage Grasses & Legumes
Institute of Biological, Environmental and Rural Sciences**

Fixed term to 31 March 2020

Grade 7: £32,958 - £38,183 per annum

To promote a flexible workforce, the University will consider applications from individuals seeking full time, part time, job share, or term time only working arrangements.

The Institute of Biological, Environmental and Rural Sciences (IBERS) is a world-class research, enterprise and education centre at Aberystwyth University. It is an internationally recognised centre of excellence and students' choice for the study of biological, environmental and rural sciences.

We are looking to recruit a Post-Doctoral Research Assistant in Bioinformatics within the BBSRC Core Strategic programme in Resilient Crops. The successful candidate will undertake the analysis of multi 'omics datasets to understand the relationships between genotype, phenotype and environment with the view to identifying genes and pathways linked to desirable traits. The outputs of these projects will help in understanding key crop plant traits with a range of potential impacts in biotechnology and agriculture with a focus on forage grasses and legumes.

To make an informal enquiry, please contact Prof Iain Donnison at isd@aber.ac.uk.

Ref: IBERS.17.1410

For information and to apply, please go to <http://jobs.aber.ac.uk>.

We are a Bilingual Institution which operates a Welsh Language scheme and is committed to Equal Opportunities.

APPOINTMENTS ARE NORMALLY MADE WITHIN 4-8 WEEKS OF THE CLOSING DATE.

Further Particulars (Yn Saesneg yn Unig)

This job description is subject to review and amendment in the light of the changing needs of the University, to provide appropriate development opportunities and/or the addition of any other reasonable duties.

The post holder will be responsible for analysing and integrating diverse datasets (e.g. genomic markers, genetic maps, multi 'omic datasets, genomes, transcriptomes and phenomics data) to understand the relationships between genotype, phenotype and environment and to identify genes, pathways and markers associated with traits of interest. The post holder will be working in close collaboration with the research leaders and other bioinformaticians, hence strong communication skills and the ability to work as part of a team are very important. The post holder will be expected to establish and maintain existing links within and outside of the University that will facilitate the execution of existing and future



collaborative work programmes. The post holder will be expected to participate in the writing-up of findings ready for publication and to contribute to grant writing. The post holder will have some support from existing members of the bioinformatics team in IBERS but is also expected to devise and develop novel tools, analysis pipelines and workflows as required.

Main Duties & Responsibilities

- To be responsible for the analysis of multi-omic data within the BBSRC Core Strategic Programme in Resilient Crops.
- To develop computational strategies and pipelines to analyse bioinformatics data.
- To communicate findings and work in close collaboration with the research leaders and research team.
- To engage in existing collaborative projects both within and outside the university.
- To communicate findings and compile project reports and prepare project results for both publication in journals and/or presentations in meetings/conferences.
- To undertake health and safety duties and responsibilities appropriate to the post.
- To be committed to the University's Equal Opportunities and Diversity Policy, together with an understanding of how it operates within the responsibilities of the post.
- To be committed to your own development and that of your staff through the effective use of the University's staff development and performance review.
- Any other duties reasonably requested.

The responsibilities of this vacancy have been matched to the Academic Role Profile Research 2. Details of the role profile can be found at:

<https://www.aber.ac.uk/en/media/departmental/humanresources/frameworkagreement/academicprofiles/R2.pdf>

Person Specification

Essential	Desirable
Qualifications <ul style="list-style-type: none"> • PhD in bioinformatics, biological, physical or computer science (or equivalent experience) 	
Experience <ul style="list-style-type: none"> • Significant and demonstrable experience in the field of plant bioinformatics, e.g. track record of publications • Proven experience in the analysis of complex multi-omics datasets including but not restricted to genomics and transcriptomics • Proven experience in developing scripts and workflows for multi-dimensional data analyses 	<ul style="list-style-type: none"> • Experience of training and supervising other team members • Experience of dealing with large data sets and running software on HPC systems • Previous experience working with large, complex, genomes



<p>Knowledge</p> <ul style="list-style-type: none"> • Interest in working within a heterogeneous environment and collaborating with scientists with a range of expertise in the life sciences 	<ul style="list-style-type: none"> • Familiarity with the GALAXY platform
<p>Skills</p> <ul style="list-style-type: none"> • Excellent problem-solving skills • Ability to contribute to publications and grant proposal writing 	<ul style="list-style-type: none"> • Ability to generate genetics maps
<p>Welsh Language</p> <ul style="list-style-type: none"> • The ability to understand the bilingual nature of the University and an awareness of the procedures in place to support working bilingually. 	<ul style="list-style-type: none"> • Oral (spoken) and Written Welsh Level B1*.

*Oral and Written Welsh Level B1. I can:

- take advantage of a range of simple language to deal with most situations which are likely to arise in my work.
- understand the general meaning of emails and letters on topics of personal interest, as well as theoretical letters within the context of my work.
- enter unprepared into conversation on topics that are familiar, e.g. family, hobbies, work, travel and current events.
- offer advice on simple matters to clients within the context of my work.
- describe experiences and events, hopes and ambitions.
- give reasons and explanations for my opinions and plans concisely
- take fairly accurate notes in meetings or seminars where the subject is familiar and foreseeable.
- write letters or emails to describe events, experiences and impressions
- write memoranda or informal emails to convey information.

