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Job profile

The job requirements are detailed below. Where applicable the skills, qualifications and memberships required for this job have also been included.

Job details

Job title

Postdoctoral Research Associate in Computational Biology

Job reference

P68130

Date posted

24/06/2019

Application closing date

05/08/2019

Location

Cornwall

Salary

The starting salary will be from £29,515 on Grade (E), depending on qualifications and experience.

Package

Generous holiday allowances, flexible working, pension scheme and relocation package (if applicable).

Job category/type

Research

Attachments**Job description****College of Life and Environmental Sciences, Biosciences**

The above full-time post is available from 1/10/19 to 30/9/21 in the College of Life and Environmental Sciences. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 773902.

About the post

The College wishes to recruit a Postdoctoral Research Associate in Computational Biology to participate in a high profile EU funded project entitled '*Innovative tools or rational control of the most difficult-to-manage pests (SuperPests) and the diseases they transmit*'. This post is available for two years from October 2019. The post-holder will be based jointly within the Centre for Mathematics and the Environment and the Centre for Ecology and Conservation at the University's Penryn Campus and be part of a thriving group comprising several PhD students, post-doctoral research fellows and technicians.

The project focuses on the development of data-driven evolutionary frameworks for effective and sustainable pest management based on multi-trophic crop - pest - predator interactions and with a specific emphasis on resistance evolution and its prevention. The successful candidate will employ a range modelling and model fitting approaches to investigate the (synergistic or antagonistic) effects of plant resistance on pest population dynamics and the emergence and spread of pest resistance traits. The overall goal of this study will be to evaluate and devise on the optimal integration of novel tools developed as part of this EU project and thus advise on optimal, site-specific control measures and pest intervention strategies.

Over the duration of the project, the postdoc will be encouraged to develop their own avenues of research with a view to establishing themselves as an independent investigator. The project includes funds to facilitate attendance at national and international conferences/workshops.

About you

Applicants will possess a relevant PhD or equivalent qualification/experience in a field related to this study. Experience in mathematical modelling / theoretical biology and computer programming are essential. Experience with modelling pest management and / or evolutionary dynamics would be advantageous.

You can view the [Job Description and Person Specification document](#) here.

The University of Exeter

We are a member of the prestigious Russell Group of research-intensive universities and in the top 150 universities in the world (Times Higher Education World University Rankings 2019). We combine world-class teaching with world-class research, achieving a Gold rating in the Teaching Excellence Framework Award 2017.

Our research income in recent years means we're fastest growing UK Research University and we seek to answer some of the most fundamental issues facing humankind today through this. 98% of our research is international quality (2014 Research Excellence Framework) and we encourage proactive engagement with industry, business and community partners to enhance the impact of research and education and improve the employability of our students.

With over 22,000 students and 5,500 staff from 180 different countries we offer a diverse and engaging environment in which to work. We are an equal opportunity employer, a Disability Confident employer and an Athena Swan accredited institution. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

Benefits

We offer some fantastic benefits including:

- 41 days leave per year
- Options for flexible working
- Numerous discounts at leading retailers
- Onsite gyms on all of our campus' and a cycle to work scheme
- Sector leading policies around [maternity, adoption and shared parental leave](#) (up to 26 weeks full pay), paternity leave(up to six weeks full pay) and a new Fertility Treatment Policy
- Stunning campus environments in Exeter and Cornwall, in the beautiful [South West of England](#)

For further information please contact Professor Chris Bass, e-mail c.bass@ex.ac.uk.



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