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by Alexandra Radics

REF. N. 11_18

Job Description:

Job title: 1 PostDoc position in BIOLOGICAL SCIENCES

Name of Organisation: London Institute of Medical Science – MRC (Medical Research Council) – Imperial College London

Country: United Kingdom

City: London

Main research fields: Biological science

Sub research fields: Behaviour analytics and tracking

Application deadline: 03/05/2018 23:00 Europe/London

Required Education:

Level: PhD degree

Fields: Physical sciences, engineering, mathematics, computer science, or similar.

Language skills:

Required languages: English

Level: Excellent

Required research experiences:

Experience planning and completing an independent research project

Expertise in at least one programming language

Application details:

Job description: The group's research is aimed at understanding how genome variation affects behaviour, with an emphasis on how high-throughput imaging and quantitative analysis can open new ways of exploring the genotype-phenotype map. Current areas of research include new representations of complex phenotypes such as behaviour and the development of new imaging systems to record video of freely behaving worms with high-throughput and resolution. Increasingly, we are also using this technology for whole-animal drug screens. The post holder will develop new methods for quantifying behaviour to improve the power of genome wide association studies for behaviour and to predict the mechanism of action of new neuro-active drugs.

Duration of job: 3 years

Status: Full-time

Benefits: You will have access to a whole host of benefits from a defined benefit pension scheme and excellent holiday entitlement to access to employee shopping/travel discounts and salary sacrifice cycle to work scheme.

Salary: £ 35.340 – £ 38.181 (Salary quoted is inclusive of London weighting)

Additional requirements:

- Demonstrated ability to derive insight from quantitative data using computational methods.
- Knack for quantitative data analysis.

- Good coding skills are essential, previous work with Python and OpenCV is desirable.
- Experience with machine learning (including deep learning), image analysis, and tracking would also be an asset
- Publications in peer-reviewed journals
- Presentations at scientific conferences