

## **Postdoctoral in Human Population Genomics**

The goal of the postdoctoral position is to undertake large-scale analyses of human genome wide data and complete genomes at a population level to carry out independent research, contributing as a team member to the wider program of research led by Dr. David Comas (<http://www.biologiaevolutiva.org/dcomas>). This will involve contributions to the design and development of new studies, leading modest-scale research projects and playing a key role in collaborative human population genetics studies. Current research focuses on complete genome analyses in human populations to unravel the evolutionary processes (demographic and adaptive) that have shaped the extant genomic diversity.

Specifically the postdoctoral researcher will:

- Lead analyses of human genome wide and complete genomes data and bioinformatic analyses to explore evolutionary processes.
- Lead and undertake innovative research that will advance understanding of the genomic determinants of human diversity, using strategic vision, supervisory skills, innovative ideas and high-level research skills as an experienced researcher working at the interface of bioinformatics, genetics, human biology and biomedicine. This will include making significant contributions to journal papers and could include development of novel statistical genetic methods where relevant to on-going studies.
- Contribute to the international profile of the team by presenting research to research teams, local audiences and international conferences.
- Co-supervise junior members of staff and research students and provide advice and guidance to other members of the team and to collaborators.
- Contribute to broader team goals including the participation in University teaching of undergraduate and master students.

### **Qualifications, Knowledge and Experience:**

Essential

- PhD in Population Genetics or a related field.
- Knowledge of human genomics.
- Experience of techniques used in bioinformatics, genomics and statistical genetics, with particular expertise in computational approaches to genomic analyses.
- Evidence of bioinformatic or statistical programming competency.

- Evidence of research productivity (including high-quality research publications, presentations) and involvement in innovative, high-level research.

Desirable

- Evidence of training students
- Experience of Linux, scripting and use of a High Performance Computing Linux cluster

### **Skills, Abilities and Competencies:**

Essential

- High level of proficiency in English, sufficient to undertake research and teaching to communicate effectively with staff and students.
- Ability to work independently and also as part of a research team.
- Excellent written and oral communication skills.
- Effective interpersonal and organizational skills, excellent time management skills.
- To demonstrate research potential, high motivation and enthusiasm of the subject area and deliver high quality research.
- Computational skills, including statistical programming (ideally R) and ideally also a programming language such as Python, Perl or C++.
- Ability to supervise research students and junior staff

A full-time position for 2 years with the possibility of extension is offered. Salary will be similar to postdoc positions offered by the Spanish Ministry ("Juan de la Cierva" contracts). Starting date November 2016 but alternative dates can be discussed. Candidates are asked to supply contact details for referees, a CV and a covering letter to support the application. Candidates short-listed for interview will be contacted by the team leader. Applications should be sent to [david.comas@upf.edu](mailto:david.comas@upf.edu). Review applications will begin on October 1<sup>st</sup>, 2016 and continue until the position is filled. Applications received by October 1<sup>st</sup> will be given priority consideration.