Postdoc in Computational Genomics

Applications are invited for a two-year postdoctoral researcher position in the field of ancient DNA and evolutionary genomics, in the group led by Prof. Ludovic Orlando at the University of Toulouse, France (see http://geogenetics.ku.dk/research_groups/palaeomix_group/ and http://amis.cnrs.fr/?Environmental-and-socio-cultural-co-evolutionary-processes-in-ancient-human for information about the laboratory).

Applicants should have completed a PhD and/or extensive experience in the fields of Evolutionary Genomics or Computational Science and have an established record of research productivity and publications in high-profile scientific journals. A background with genome-scale computational analyses and high-throughput DNA sequencing is highly desirable. Experience with ancient DNA will be considered positively.

Research in the Paleomix group is focused on developing and applying integrative approaches for studying ancient DNA molecules, promoting the field of palaeomics by the merger of biochemistry, molecular biology, genomics and computational biology. The group has developed molecular and computational methods to not only characterize patterns of genomic variation with high-throughput DNA sequencing datasets from ancient samples, but also their underlying epigenomic variation as well as the taxonomic composition of the microbial communities identifiable from metagenomic extracts. The main focus of the group is currently on an ERC-funded Consolidator project aimed at tracking the history of changes in the genomes of horses, their epigenomes and oral microbiomes during and following their domestication (see http://orlandoludovic.wixsite.com/pegasus-erc).

We are seeking a highly motivated and productive scientist who is interested and capable of contributing to a research team consisting of molecular biologists, bioinformaticians, statisticians, and evolutionary biologists. The post-doctoral researcher will develop and apply a large variety of computational approaches to the vast genome sequence datasets produced within the group, and will be responsible of sequence data management. They should have strong research interests in evolutionary biology, large-scale genome analyses as well as a solid training in statistical and population genomics. The ideal candidate will show great abilities to work in a team environment and strong expertise in the computational procedures used in next-generation sequencing and population genomics. They will be highly proficient in one or more of the R, Perl/Python and/or C/C++ programming languages, and able to work in a Linux environment.

The successful applicant will be responsible for the daily management of their research project in coordination with other members of the Paleomix group, spread across the University of Copenhagen, Denmark and the University of Toulouse, France. They will be based in Toulouse and actively involved in the training and co-supervision of other staff members and students.

Applications will be accepted until May 5th 2017. The anticipated start date for this appointment is September 1st 2017. To apply, please send your CV, a publication list, a statement of your research background and interests, a motivation letter and contact information for three references to Ludovic Orlando at Lorlando@snm.ku.dk