TORRES-QUEVEDO

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Are you a human geneticist with bioinformatics skills? Willing to work in a young, motivated and friendly group of scientists in the vibrant city of Barcelona?

We are an emerging spin-off company, DBGen Ocular Genomics (http://www.dbgen.org), dedicated to genetic diagnosis of rare Mendelian ocular disorders. DBGen Ocular Genomics was founded by two professors of the University of Barcelona with a long-standing knowledge on the genetics of inherited retinal dystrophies. We are based in one of the best scientific areas in the city of Barcelona, within the premises of the University (UB) (mapview) and very close to pioneering and stimulating bioinformatics centres (CNAG, BSC, PCB-IRB).

This new full time post is available from September 2019 up to August 2022.

The post

Our company wishes to recruit a Postdoctoral Research Fellow (absolute requisite is an accreditation stating that the date of PhD dissertation was before 10th of February 2019) to apply for a competitive Torres Quevedo Project, aimed at transferring young trained scientists to science-based companies. The suitable applicant will provide the CV, and DBGen will be responsible for writing and submitting the TQ Project application and complement the salary. The salary range is 26.000€-34.000€ per year according to the qualifications and skills of the successful applicant.

Job description

The advent of Next Generation Sequencing (NGS) has generated a plethora of genomic data. However, in the era of personalised medicine, one of the main caveats of NGS-based genetic diagnosis is that a significant number of cases remains unsolved. Particularly poignant are recessive Mendelian cases where a single pathogenic allele has been identified and there is full agreement between the clinical disease and the candidate gene, or else, only variants of uncertain significance (VUS) have been identified. The post we are offering aims to improve current bioinformatic pipelines by developing new algorithms to: i) consistently detect structural variants, ii) infer haplotype phasing, iii) implement systematic screenings of genetic pathways and interactome data to prioritize new candidates and establish their relationship with the disease, iv) use protein and mRNA structural data to assess pathogenicity in missense VUS. The development of tasks will be also supervised by Dr. David Torrents (Barcelona Supercomputing Center, BSC), who has deep expertise in developing bioinformatics tools for cancer diagnosis. This R+D post at DBGen is a great opportunity for those scientists wishing to merge academic research and knowledge transfer.

About you

The applicants should provide a full CV, and proof of PhD defence before February 10.

Applicants will possess a relevant PhD or equivalent qualification/experience in human genetics and experience on bioinformatics tools for genetic variant identification.

You will be able to develop your career by providing new optimization tools for genetic diagnosis improvement and developing new algorithms. You will gain expertise in managing a small company, learn to work collaboratively in a growing group, supervise the work of others and act as team leader as required. You will also be implicated in a project that directly benefits patients and families affected by rare diseases, which need genetic diagnosis and genetic counselling of their disorder, as a first step to opt for the upcoming gene and cell therapies.

For further information please contact Roser Gonzalez-Duarte, e-mail rgonzalez@dbgen.org
Visit our website to meet our team, http://www.dbgen.org