Researcher position for the development and application of bioinformatics tools for genomics data

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Istituto Italiano di Tecnologia – IIT is looking for an experienced scientist to develop and apply bioinformatics tools for genomics data within the project 5000genomi@VdA (center CMP\textsuperscript{3} at Aosta, Italy).

This Position is funded by FESR “5000genomi@vda” CUP B68H19005520007 granted by Regione Autonoma Valle D’Aosta For further information regarding the project, please visit www.5000genomivda.it

Candidates’ areas of expertise include (but are not limited to) genome bioinformatics, computational genomics/biology and programming.

The selected candidate will work as part of a larger research program in the field of medical genomics. He/she will work in a fast-paced and highly collaborative environment to address important questions in the context of precision medicine, also leading a small group of younger investigators.

Requirements:

- PhD in bioinformatics, computational biology or statistics, genetics, molecular biology, or a related discipline;
- Analysis and interpretation of WES and WGS trios data, enabling the identification of mutations causative of rare pathologies.
- Extensive expertise in the manipulation, analysis and interpretation of high dimensional genetic and genomic data;
- Strong expertise in the application of human genomics data to reveal fundamental biological insights towards precision medicine endeavors;
- Strong publication record, and proven competence in languages such as R and/or Python and/or perl;
- A high level of understanding of cellular and molecular biology and biochemistry experimental techniques;
- Ability to work independently but also to be a productive and cooperative member of a research team;
- Ability to manage multiple projects;
- Prior experience in managing small teams (desirable);
- Strong written and oral communication skills in both Italian and English.

Main responsibilities:

- To operate and maintain genome bioinformatics activities at center CMP\textsuperscript{3} in Aosta, Italy;
To manage a small team of genome bioinformatics scientists;
To develop pipelines for variant calling in the non-coding portion of the genome;
To develop pipelines for the analysis of Whole Genome Sequences;
To develop and apply computational and statistical methods to maximize the integration of insights from human genomics analyses;
To interoperate with machine learning experts to analyze data;
To communicate and report study findings at meetings;
To work cooperatively with the team to optimize strategies and pipelines in the field of medical genomics and precision medicine;
To contribute to group goals and objectives with new ideas and creative approaches.

Please submit your applications, including a detailed CV, 3 representative publications, 2 pages of research statement and 3 reference letters in PDF form using the online form.

Deadline is October 15, 2020.

https://www.5000genomivda.it/it/lavora-con-noi