Head of Bioinformatics Services, Langebio-CINVESTAV, Mexico

The National Laboratory of Genomics for Biodiversity in Mexico (Langebio) is seeking a computational scientist to become the Head of Bioinformatics Services. Langebio is a Unit of the "Centro de Investigación y de Estudios Avanzados" (CINVESTAV), Mexico's top-ranked research network.

Our mission is to conduct internationally competitive research and graduate education to promote genomic knowledge for the protection and sustainable use of Mexican biodiversity (www.langebio.cinvestav.mx).

The main responsibility of the Head of Bioinformatics is to develop a self-sustaining program of computational analyses and consulting services to be provided for internal and external users of the Genomics Core Facility at LANGEBIO.

The candidate will implement a series of computational tools for the analysis of genomic and transcriptomic data from multiple species, such as NGS Data Analysis and Quality Control, Sequence Annotation and Identification, De Novo Assembly, Genotyping-By-Sequencing (GBS) Data Analysis, Microarray Genotyping Analysis (human and non-human SNP arrays, methylation arrays, gene expression arrays, etc.), RNA-Seq and Genomic Structure Analysis, as well as support services including Project Planning and Experimental Design, Statistical Analysis, Interpretation, and Custom Scripting.

The Head of Bioinformatics will have full support from existing technical staff at Langebio's core facility, including one programmer and one bioinformatics assistant, and his/her team will work closely with the Head of Genomics to implement new methods and pipelines to analyze high-throughput data from Next Generation sequencing platforms. Genomic Services currently has cutting-edge facilities including Illumina HiSeq, NextSeq, MiSeq, HiScan, Ion Torrent/Proton, 454, and state-of-the-art computational infrastructure.

Requirements for this position include:

- A solid background in Computational Biology, Bioinformatics, Genomics or another related discipline (a PhD is essential, postdoctoral experience is not required but preferred)
- Ability to manage a self-sustaining services program and train other staff members
- Experience developing tools, methods or pipelines to analyze and interpret large-scale genomic data
- Experience working with Next Generation Sequencing results (as evidenced by publications)
- Programming proficiency in at least one or several languages such as Python, Perl, C, C++, Java, R, as well as expert level experience with Linux/Unix environments
- Experience using servers and clusters for High Performance Computing
- Excellent verbal and written communication skills in English and Spanish

Besides the services program, the candidate will not be required, but will be encouraged, to engage in research through independent or collaborative projects, which will contribute to his/her academic record.

Langebio-CINVESTAV offers a competitive salary and an excellent working environment. Base income will match applicant's prior experience and supplementary earnings can be considered, depending on performance of services provided, which allows for income scalability. Applications from women are encouraged.

Applicants should submit in a single PDF: 1) a three-page description of their major accomplishments, prior experience, interest in providing services, and a proposed bioinformatics program, 2) applicant's CV, and 3) copies of applicant's most important publications, up to three. Applicants should also arrange for three reference letters to be sent separately. Applications will be received until the position is filled. The starting date is flexible, but must be during 2016. Send applications to the attention of Dr. Andres Moreno Estrada, Langebio-CINVESTAV, Irapuato, Guanajuato, MEXICO, E-mail: amoreno@langebio.cinvestav.mx