

**Ph.D. in Functional and Structural Genomics at SISSA in the Computational Genomics Lab**

Principal Investigator: Prof. Remo Sanges

The Computational Genomics Laboratory, within the Neuroscience department at SISSA, is seeking strongly motivated candidates interested in studying the evolution of genome organization and its transcriptional output in development and diseases of the nervous and immune systems, the activity of transposable elements and the identification and annotation of variations. We are looking for someone who get fascinated by complexity, understands biological and evolutionary problems and is able to independently accomplish bioinformatics tasks.

**REQUIREMENTS**

Candidates are expected to have knowledge of biology, functional genomics and programming in a UNIX/Linux environment. Previous experience with comparative genomics and genomics databases is a desirable asset. The selected student will become familiar with at least a scripting language (*e.g.* Python, Perl), a database system (*e.g.* MySQL) and a statistical programming environment (*e.g.* R) in order to build bioinformatics pipelines to answer scientific questions.

**HOW TO APPLY**

The call with detailed instructions on how to apply can be found at the following address:

<https://pica.cineca.it/sissa/phd-genomics-02-2020/>

Interested candidates must apply to the “Functional and Structural Genomics” Ph.D.

**The closing date for applications is 24 August 2020.**

Candidates passing the evaluation of submitted documents will undergo oral examinations.

**The P.hD. course will start in November 2020.**

For any information please send an email to [remo.sanges@gmail.com](mailto:remo.sanges@gmail.com)

**Informal inquiries are welcome!**

**GENERAL INFO**

The P.hD. Course is an innovative post-graduate program. Students receive an intensive training period with lectures on a wide spectrum of advanced topics (genomics, transcriptomics, genetic, genome engineering, neurobiology of diseases, biostatistics, bioinformatics) during the first year. They then focus on their own research project under the supervision of a faculty member. Research is carried out in daily contact with the supervisor and collaborators.

SISSA, the International School for Advanced Studies is a scientific center of excellence located in Italy, in the city of Trieste. It features about 80 professors, 100 post-docs, 300 Ph.D. students and 100 technical administrative staff. The three main research areas of SISSA are Physics, Neuroscience and Mathematics. SISSA runs twelve Ph.D. courses covering the three main research areas and a Master course in High Performance Computing. At SISSA we run one among the biggest high performance computing cluster in Italy.