

Post-Doctoral Position at University of Southern California

Program in Computational Biology and Bioinformatics

Laboratory of Dr. Andrew D. Smith

The laboratory of Dr. Andrew D. Smith has two open positions for postdoctoral research associates to work in the area of **Computational Epigenomics**. We are involved in multiple projects to elucidate specific functions of DNA methylation, histone modifications and non-coding RNA in early development and cancer. These projects are in collaboration with Dr. Gregory Hannon at Cold Spring Harbor Laboratory. Successful candidates will design new algorithms and statistical methods for analyzing large-scale data sets, with the aim of answering specific biological questions. The data analysis will involve massive datasets produced specifically for our projects and hold much promise for discovery. Successful candidates will require creativity in designing novel computational methods to meet the unique analytical challenges presented by emerging experimental methods being developed by our collaborators.

Requirements

- PhD in Computer Science, Computational Biology, Bioinformatics, Statistics, Applied Math or Physics
- Deep interest in solving biological problems
- Solid programming skills and experience with C or C++
- Ability to work comfortably in a Unix/Linux environment

This position will be particularly suitable to candidates interested in

- Working with novel epigenomic data, produced specifically for our research projects
- Interacting directly with experimentalists producing cutting edge data
- Having opportunities to contribute to experimental design decisions
- Gaining experience working with massive datasets from second-generation sequencing technologies
- Applying quantitative methods in projects with potential biomedical impact

About Computational Biology and Bioinformatics at USC

The USC program in Computational Biology and Bioinformatics is one of the earliest-formed and largest such programs in the world. We have ten full-time Computational Biology professors covering a broad range of research topics. The program currently has approximately forty PhD students and postdocs. We provide excellent training opportunities, top-notch infrastructure (both computational and experimental), a new and spacious work environment and a highly collaborative relationship with the USC molecular biology program, which is housed in the same building. USC is located in Los Angeles, California, with an average of 329 days of sunshine every year.

How to apply

Interested applicants should send a CV (including a list of publications), a statement of research interests and contact information for 3 references to Dr. Andrew D. Smith at: andrewds@usc.edu