

The Shore Laboratory, Department of Molecular Biology, has an opening for a

Post-Doctoral Position in Molecular Systems Biology

Desired experience: Molecular genetics and/or biochemistry, bioinformatics, systems biology.

Project: The position is funded through a SystemsX.ch RTD project "**A Systems Approach to the Yeast Transcriptional Regulatory Network**" (<http://www.systemsx.ch/index.php?id=151>).

The specific project is joint with the Naef (computational biology) and Maerkl (microfluidics) Laboratories at the Ecole Polytechnique Federale de Lausanne (EPFL) and will involve studying the transcriptional regulation of ribosome biogenesis in the yeast *Saccharomyces cerevisiae* and the role of chromatin in this process. Our groups and others have generated a large body of prior data (e.g. ChIP-seq and in vitro binding energy measurements for the major transcription factors (TFs), nucleosome position maps, TF interactions and modifications). The candidate will work together with a small team of computational biologists to use this information for the design of synthetic promoter constructs that he/she will test directly. Candidates with a strong background in molecular biology as well as prior experience in bioinformatics and/or mathematical modeling are encouraged to apply.

The successful candidate will develop research activities pertaining to

- Design and construction of promoter variant libraries
- High throughput measurement of gene output, TF and nucleosome binding, TF interactions
- Data analysis and model development in collaboration with computational biologists

Qualifications:

- Ph.D. in molecular biology/biochemistry, experience in bioinformatics, computer science, applied mathematics, or an equivalent discipline

Outstanding and highly motivated individuals are welcome to apply. Contract will be initially for one year, renewable. Salary will be commensurate with qualifications and experience. The University of Geneva is an equal opportunity employer.

Please send a full CV, a statement of interest and names of two references by mail or e-mail to:

Prof. David Shore (David.Shore@unige.ch)

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Prof. Félix Naef (felix.naef@epfl.ch)

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Starting date: approx. **1st October 2008**, position is available immediately. For further information, please contact Prof. David Shore David.Shore@unige.ch or Prof. Félix Naef, felix.naef@epfl.ch.