Postdoctoral/programmer positions in Computational Systems Biology
(The Department of Genome Sciences, University of Washington)

Two postdoctoral positions and one programmer position are available with Elhanan Borenstein’s group (http://elbo.gs.washington.edu/) in the Department of Genome Sciences at the University of Washington. Borenstein’s group focuses on computational and evolutionary systems biology research, with an eye to constructing novel in-silico models and developing innovative computational methods to study the human microbiome and to address core questions concerning its assembly, capacity and impact on the host.

Specific research themes include:

- **Metabolic interactions, community structure and systems biology of the human microbiome**
- **In silico models of microbial communities and computational analysis of metagenomic data**
- **Large scale computational study of biological networks and their evolution (with an emphasis on metabolic networks)**
- **Modularity, robustness, evolvability, and assembly rules of complex biological systems**

Research in the group is multidisciplinary in nature and spans several levels of abstraction, ranging from state of the art computational analysis of complex networks and high-throughput data to theoretical studies of mathematical and computational models.

The successful candidate is enthusiastic, creative, and highly motivated, with a track record of research excellence in computational biology. **Strong analytical, quantitative and computational/programming skills are essential** as well as the ability to conduct independent cutting-edge research. Experience with computational systems biology, metabolic modeling, complex biological networks, large-scale biological data, machine learning, or metagenomics is highly desirable. A PhD in life sciences, computer science, mathematics, or bioinformatics is required. Candidates with a multidisciplinary background, spanning both life sciences and computer sciences, are especially encouraged to apply.

The University of Washington is consistently ranked as one of the top research universities in the country and is the largest university in the northwestern United States. The Department of Genome Sciences (http://www.gs.washington.edu/) addresses cutting edge questions in biology and medicine by developing and applying genetic, genomic and computational approaches. The department faculty includes nine NAS members, five HHMI Investigators, and a 2001 Nobel laureate in Medicine. The department moved into the new, state of the art Foege Building in 2006.

The Seattle area is home to many major academic institutes and hi-tech companies, forming a vibrant and exciting research community. Considered one of the nation's most beautiful and livable cities, Seattle boasts an array of cultural activities, parks, and restaurants, and serves as the gateway to National Parks and Forests, as well as boating, skiing and hiking areas.

Interested applicants should submit a CV, a brief (2-3 paragraphs) statement of her/his research interests and experience, and contact information of three references to Elhanan Borenstein (elbo@uw.edu).