Several postdoctoral positions in computational biology are available in the laboratories of Prof. Jeffrey Chuang and Prof. Gabor Marth in the Biology Department at Boston College. Successful candidates will be joining researchers in a growing, vigorous Computational Biology program located in a recently constructed research building on the Boston College Campus.

Prof. Chuang’s lab (http://clavius.bc.edu/research/chuang) uses computational, mathematical, and statistical techniques to study problems in comparative genomics, gene regulation, and molecular evolution. The lab is recruiting one postdoctoral scientist to study the conservation of functional sequences across eukaryotic genomes. Problems of interest include the identification of sequences that regulate transcription and translation, as well as the characterization of neutral mutation rates in a variety of phylogenies. A doctorate in science or engineering (e.g. biology, physics, computer science, electrical engineering) is required, and strong computing skills are essential. Knowledge of molecular and/or evolutionary biology is preferred but outstanding candidates who are new to the field will also be considered.

The Marth laboratory (http://clavius.bc.edu/~marthlab/MarthLab) is recruiting two postdoctoral scientists who can participate productively in one or more of the following projects: (i) computational discovery of genetic variations (including a complete redevelopment and functional expansion of the PolyBayes SNP discovery program); (ii) development of computational tools to analyze the genomic changes in cancer; (iii) population genetic approaches to medical genetics including haplotype analysis and the selection of genetic markers; and (iv) computational approaches to pharmaco-genomic questions e.g. methods to predict adverse drug reactions based on genotype information. A doctorate in science or engineering is required. One position will focus on biological software development, and the other will emphasize evolutionary and population biology, as well as statistical and medical genetics.

Applicants should submit a curriculum vitae, a description of research interests, and three letters of reference. Depending on the applicant’s interest, materials should be sent to Prof. Chuang at chuangj@bc.edu or Prof. Marth at marth@bc.edu.