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**Requisition Number:** 595

**Job Title:** Bioinformatics Analyst II

**Area of Interest:** Bioinformatics

**City:** Cambridge

**State/Province:** Massachusetts

**Job Description:** BIOINFORMATICS ANALYST II, Broad Institute-Genome Sequencing and Analysis Group, Medical Population Genetics Program to conceive and develop algorithms and analysis approaches to solve the key challenges for emerging DNA sequencing technologies, instantiate these ideas in usable software tools and pipelines, and apply these tools to flagship Program projects like 1000 Genomes with revolutionary implications in human medical genetics. Will join a lively team and wider community of computational biologists, medical geneticists, and software engineers dedicated to creating a general-purpose toolkit for applying next-generation DNA sequencing to medical genetics.

Characteristic duties include: serve as the first-line contact point between program investigators and platform staff to ensure production data analysis proceeds in a coordinated, efficient manner; in collaboration with Technology Platform managers and Program managers, troubleshoots and monitors quality of projects throughout analysis process; working with senior members of the group to apply computational techniques and biological domain knowledge to implement analysis tools to solve complex computational and mathematical problems; prototyping new algorithms and new approaches to data analysis, validating their value on novel data sets, and implementing and optimizing successful algorithms for use by the broader community; providing analytic and programming support in a fast-paced environment to senior members of the group, MPG and its collaborators to analyze the data for large-scale medical resequencing projects; and preparing written reports and presentations for internal use and publication. Must enable the research of other program scientists through excellent communication, project management, teamwork, and a focus on creating usable and accessible research software tools.

**Requirements:**

- Deep programming and analysis abilities demonstrated by a top-tier bachelor's degree in computer science, statistics, applied math, physics, engineering, bioinformatics or equivalent.
- Must possess excellent general computational and programming skills; familiarity with Java (or C/C++), Python (or Perl), and analysis tools like MATLAB and/or R.
- Excellent organizational along with oral and written English communication skills required.
- Must be able to manage multiple simultaneous long-term computational projects while meeting frequent project deadlines.
- Prior biological research experience a plus.
- Must be able to translate high-level data processing and analysis requests into concrete tasks and operate independently and interface with team members to achieve the needed results.

Broad will not offer visa sponsorship for this opportunity.

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