Opportunity Title: Bioinformatics Opportunity - CDC
Opportunity Reference Code: CDC-NCHHSTP-2017-0068

Organization Centers for Disease Control and Prevention (CDC)

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How to Apply A complete application consists of:

- An application
- Transcripts – Click here for detailed information about acceptable transcripts
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional references

All documents must be in English or include an official English translation.

If you have questions, send an email to CDCrpp@orau.org. Please include the reference code for this opportunity in your email.

Description A fellowship opportunity is available in the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

CDC mission is to protect America from health, safety and security threats, both foreign and in the U.S. Whether diseases start at home or abroad, are chronic or acute, curable or preventable, human error or deliberate attack, CDC fights disease and supports communities and citizens to do the same.

CDC increases the health security of our nation. As the nation's health protection agency, CDC saves lives and protects people from health threats. To accomplish our mission, CDC conducts critical science and provides health information that protects our nation against expensive and dangerous health threats, and responds when these arise.

This opportunity may provide the opportunity to be involved in the following activities:

- Providing customized or guided computational support within a team environment.
- Evaluating existing methods for genomic data analysis.
- Developing, validating, optimizing and implementing analysis pipelines for genomic data analysis.
- Performing bioinformatics analyses of large scale genomics data.
- Integrating statistical analysis to project design and data interpretations.
- Supporting various research projects as assigned by supervisor.
- Partnering with department personnel and researchers in the institution.

- Developing new applications for genomic data analysis as requested.
- Providing data management recommendations, be a team supporter in development of database, as required.
- Establishing schedules and monitoring status of projects on an ongoing basis.
- Preparing summaries, presentations, manuscript sections and figures for the visualization and publication of complex data and results.

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- Performing other related duties as assigned or requested.
- Enhance professional growth and development by reviewing current literature and by participating in educational programs, workshops, conferences, and in-service meetings.

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and CDC. The initial appointment is for one year, but may be renewed upon recommendation of CDC contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at CDC in the Atlanta, Georgia, area. Participants do not become employees of CDC, DOE or the program administrator, and there are no employment-related benefits.

Qualifications

- Master's of science or a doctoral degree in bioinformatics or other related field being pursued or received within with the last five years.
- Demonstrated technical activity involvement.
- Knowledge of NGS technology and concrete skills in bioinformatics analysis for Illumina NGS data, is desired.
- Knowledge of prokaryotic genomics is desired.
- Proficiency in at least one high level scripting and programming language is required (e.g. PERL/Python/JAVA, R, C++).
- Involvement in a Linux environment, running a cluster using SGE and BASH shell scripting is desirable.
- Designing databases using available software packages is a plus (e.g. SQL, MySQL).
- Statistical or mathematical analysis packages is a plus.

- Strong oral and written communication skills and strong interpersonal skills are preferred.
- Demonstrate initiative in evaluating and experimenting with new technologies.
- Independent self-starter, with strong time-management skills, proven ability to multi-task.

Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Communications and Graphics Design** (1 👁)
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Engineering** (1 👁)
  - **Life Health and Medical Sciences** (4 👁)
  - **Mathematics and Statistics** (2 👁)