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Grant & Trust Administrative & Technical

Programmer
(Research Assistant / Technician III)

Centre for Biodiversity Genomics, Biodiversity Institute of Ontario

Temporary full-time from October 1, 2019 to September 30, 2020

Hiring #: 2019-0522

Please read the Application Instructions [1] before applying

Fascinated by complex data problems that require innovative solution and a creative mindset? Want your code to truly make an impact on the world? If so, we have the perfect opportunity for you! At the Centre for Biodiversity Genomics, we work with state-of-the-art technologies to design platforms and standards for large data analyses for scientific communities around the globe.

We are looking for a highly motivated Python Programmer to join the Software Development team in our informatics unit. Candidates should be highly skilled in modern programming techniques, familiar with current technologies, and have a passion for innovative and transformative projects.

As a member of the Software Development team, you will:

- Develop high-quality modules for middleware and web applications
- Contribute effective solutions to complex software design problems
- Perform code evaluation and make improvements to increase flexibility, maintainability, stability, and scalability
- Perform data analysis on system data to improve performance or user experience
- Resolve bugs as identified by testers or users
- Work on proof of concept/principle software projects
- Participate in collaborative code construction
- Work on multiple projects concurrently

Requirements of the position include:

Technical:

- Computer Science/Engineering degree or equivalent
- A minimum of 3 years working experience, programming with PHP/Python/Java
- A minimum of 2 years working experience with database design and query in Postgresql, Redis, Mongo, and/or Couchbase involving large volumes of data
- A minimum of 1 year working experience in cloud computing, including building, setup, and deploying servers.
- Experience working on web applications using Javascript/jQuery, HTML, CSS, and Mako
- Experience with data analysis and visualization in a Python environment (Pandas, Numpy, Matplotlib)
- Experience with source control tools, such as SVN/CVS/GIT/Bitbucket
- Proficient with data transformation and exchange in portable formats such as XML, JSON, TSV
Proficient in implementing server and datastore maintenance tasks using tools such JAMS, Cron, and Bash scripting
Proficient with bug tracking process and documentation using Jira, Confluence, Google Suite
Proven analytical ability to create/modify existing application code to support new functionality

Analytical:

- Experience performing assessments of software libraries and systems including benchmarking and feature investigation
- General statistical analysis to look for trends in system data
- Proven ability to prototype solutions based on specifications
- Excellent written and oral communication skills
- Experience with Agile and/or Scrum development methodologies
- Experience writing clear technical documentation

What will give you an advantage:

- Superior technical documentation skills
- Experience with XSD, XSLT, SOAP, and/or REST, Google web services
- Familiarity with high performance computing methodologies (E.g. threads and distributed computing)
- Familiarity with scientific and genomic data, including nucleotide sequences, sequence alignments, and sequence analysis
- Experience in an academic or research setting
- Background in statistics and bioinformatics

Classification: Grant/ Trust fund position, Band C
GTAT (Grant & Trust Administrative and Technical) Salary Grid [2]

At the University of Guelph, fostering a culture of inclusion [3] is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution.

Posting Date: 2019 09 16
Closing Date: 2019 09 23

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[1] https://www.uoguelph.ca/hr/careers-guelph/how-apply