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Source: University Health Network
Job Title: Senior Bioinformatics Analyst
Job Number: CAAR919696
Job Location: Toronto, Ontario, Canada
Posted: 16 May 2023

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Job Description:
Job Posting #: 919696

Position: Senior Bioinformatics Analyst
Union: Non-Union
Site: Toronto Western Hospital (TWH) – Krembil Discovery Tower
Department: Donald K. Johnson Eye Institute, Krembil Research Institute
Reports to: Co-Director and Senior Scientist
Hours: 37.5 per week
Salary: $36.88 to $46.10 per hour commensurate with experience and consistent with UHN per hour commensurate with experience and consistent with UHN compensation policy
Status: Permanent Full-Time
Shifts: Days
Posted Date: May 17, 2023
Closing Date: Until filled

The **University Health Network**, where "above all else the needs of patients come first", encompasses Toronto General Hospital, Toronto Western Hospital, Princess Margaret Cancer Centre, Toronto Rehabilitation Institute and the Michener Institute of Education. The breadth of research, the complexity of the cases treated, and the magnitude of its educational enterprise has made UHN a national and international resource for patient care, research and education. With a long tradition of ground breaking firsts and a purpose of "Transforming lives and communities through excellence in care, discovery and learning", the University Health Network (UHN), Canada's largest research teaching hospital, brings together over 16,000 employees, more than 1,200 physicians, 8,000+ students, and many volunteers. UHN is a caring, creative place where amazing people are amazing the world.

Position Summary

University Health Network (UHN) is looking for an experienced professional to fill the key role of Senior Bioinformatics Analyst in our **Donald K. Johnson Eye Institute**.

We are looking for a bioinformatician with demonstrated experience single-cell RNA sequencing analysis. The anticipation is that this qualified person will be able to work with scRNAseq and spatial Seq datasets and be able to incorporate the latest multiomic analysis tools.

This is an opportunity to work with state-of-the-art data in the context of novel stem cell and disease models of eye and congenital brain disorders. There will also be opportunities for collaborative work in adult onset neurodegeneration.

The successful applicant will be expected to bring novel ideas and approaches to the research program and contribute to the scientific development of the analysis plan and manuscript preparation.

A competitive compensation package will be offered based on demonstrated experience.

Duties

- Establish NGS data analysis pipelines for read alignment, targeted sequencing, mapping, annotation, variant calling, cell clustering and differential gene expression analyses.
- Identify areas for improvement in NGS data processing/interpretation and propose and implement solutions.
- Explore public biological databases and open source bioinformatics tools, suggest integration approaches and build prototype models.
- Work closely with researchers to provide technical support for scientific discoveries and model developments.
- Has solid grasp of the fundamentals and jargon of the domain-specific material.
- Work with research groups to plan, implement and coordinate all aspects of data collection and/or analysis.
- Participates partially or fully in initial project design, selection and development of procedures.
- Participates directly in mid-level data analysis, including application of statistical analysis techniques using standard software.
- Performs complex data manipulations without assistance.
- Performs data conversions (as required) without assistance or existing tools.
- Participates directly in mid-level complexity software or data analysis/visualization method development and implementation.
- Assists in interpretation of results and preparation of material for presentation, publication, and/or grants.
- Assesses literature in the field of study.

Qualifications

- Completion of MSc/PhD/M.D. degree, in relevant field of study.
- Published experience in scRNAseq data analysis.
- Interest in neuroscience and willingness to learn about retinal disease.
- Ability to advise/mentor fellow institute members in bioinformatics analysis strategies.
- Ability to work independently from home and on-site, and also function as part of a team.
- Ability to work well under pressure and use good judgment in assessing difficult situations.
- Attention to detail, excellent organizational and time management skills.
- Excellent verbal and written communication skills.
- Problem-solving initiative.

Why join UHN?

In addition to working alongside some of the most talented and inspiring healthcare professionals in the world, UHN offers a wide range of benefits, programs and perks. It is the comprehensiveness of these offerings that makes it a differentiating factor, allowing you to find value where it matters most to you, now and throughout your career at UHN.

- Competitive offer packages
- Government organization and a member of the Healthcare of Ontario Pension Plan (HOOPP https://hoopp.com/)
- Close access to Transit and UHN shuttle service
- A flexible work environment
- Opportunities for development and promotions within a large organization
- Additional perks (multiple corporate discounts including: travel, restaurants, parking, phone plans, auto insurance discounts, on-site gyms, etc.)

Current UHN employees must have successfully completed their probationary period, have a good employee record along with satisfactory attendance in accordance with UHN's attendance management program, to be eligible for consideration.

Vaccines (COVID and others) are a requirement of the job unless you have an exemption on a medical ground pursuant to the Ontario Human Rights Code.

UHN is a respectful, caring, and inclusive workplace. We are committed to championing accessibility, diversity and equal opportunity. Requests for accommodation can be made at any stage of the recruitment process. Applicants need to make their requirements known in advance. Any information received related to an accommodation will be addressed confidentially.

University Health Network thanks all applicants, however, only those selected for an interview will be contacted.

You will be asked to submit one letter of motivation, a brief one page statement of research interests, up-to-date CV with publications and two references.

Screening Questions:
1: Are you currently authorized to work in Canada?
2: If you are working in Canada on the basis of a work permit, what is the expiry date of your current work permit?
3: If you are working in Canada on the basis of a work permit, what is the name of the Company you are allowed to work for?
4: Are you currently or have you previously worked at the University Health Network?
5: Approximate Salary Expectations
6: Please briefly describe why you are the best candidate for this role.
7: What is your highest level of formal education?
8: If you have completed a Bachelor's Degree, Master's Degree or PhD,

please indicate your field of study.

9: How many years of experience do you have related to the position?

10: Have you had prior experience working in a clinical research environment?

11: If you are a member of a registered profession, has your licensure/registration/certificate ever been revoked, reduced/restricted/limited and/or suspended?

12: If you are a member of a registered profession have you ever been the subject of an investigation or inquiry by a provincial or territorial registering/ licensing/regulatory authority?

13: I understand that in the event I am offered employment, if I am a member of a registered profession, that I will be required to provide any and all information required to confirm that I am registered and in good standing.

14: Have you ever been convicted of a criminal offence for which a pardon has not been granted? (note that a criminal record will not necessarily be a bar to employment)

15: For internal candidates, Hospital policy requires that internal reference checks be conducted as part of the selection process. May your present supervisor be contacted for a work reference?

16: For external applicants - In the event that I am considered for employment, I authorize the release of any relevant information including employment performance information from my previous employers and other references.

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18: For external applicants - in the event I am offered employment by University Health Network, a condition of that employment will be the completion prior to my first day of employment of all legally mandated training requirements as specified in my offer of employment.

19: May your present supervisor be contacted for a work reference?(Please note that for internal candidates, Hospital policy requires that internal reference checks be conducted as part of the selection process)

20: I am aware that in the event I am offered employment by University Health Network, a condition of that employment will be the completion prior to my first day of employment of all legally mandated training requirements as specified in my offer of employment.

21: For external applicants - In the event that I am considered for employment, I agree to authorize and pay for a third party completion of a Criminal Record Check prior to my employment.

22: Are you or will you agree to be fully vaccinated against COVID-19 prior to starting a job at UHN? (The only exemption is on a medical ground

pursuant to the Ontario Human Rights Code.)
23: If you are a member of a registered profession, has your licensure/registration/certificate ever been revoked, reduced/restricted/limited and/or suspended or have you ever been the subject of an investigation or inquiry by a provincial or territorial registering/ licensing/regulatory authority?
24: Please rate your Microsoft Outlook proficiency level
25: Please rate your Microsoft Outlook proficiency level
26: Please rate your Microsoft Word proficiency level
27: Please rate your Microsoft Word proficiency level
28: Please rate your Microsoft Excel proficiency level
29: Please rate your Microsoft Excel proficiency level
30: Please rate your Microsoft PowerPoint proficiency level
31: Please rate your Microsoft PowerPoint proficiency level
32: Please rate your experience with EPR.
33: Please rate your experience with EPR.
34: Please rate your experience with PHS.
35: Please rate your experience with PHS.
36: I am aware that I must comply prior to my start date with mandatory immunization requirements in order to work at UHN - Including: 2 step TB skin test (unless previously tested positive), evidence of immunity to Measles, Mumps and Rubella (MMR), Varicella (chicken pox) and evidence of immunity to Hepatitis B if working with patients and/or I will be exposed to blood, bodily fluids or infectious waste.
37: The information I have provided in this application is accurate and fully discloses my background, education and work history and that I can perform all duties of the job as provided in the job posting. If I cannot perform all duties of the job, I have provided information concerning what I am unable to do without an accommodation pursuant to Ontario Human Rights Code. Any misrepresentation or omission of information by me will be deemed sufficient cause for termination.

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