



SENIOR BIOSTATISTICIAN (*APPLIED DATA SCIENCE FOCUS*)

REPORTS TO: Director, OCS
STATUS: Permanent, full-time (35 hours/week) – Unionized & Hybrid Position
SALARY RANGE: Grade 4: \$79,567.50 - \$97,857.99
LOCATION: 1300 Yonge Street, Toronto, ON

ABOUT US

The Ontario HIV Treatment Network (OHTN), established in 1998, is a nonprofit organization with a mission to improve the health and lives of people living with and at risk of HIV by using data and evidence to drive change. We work with three main types of partners -- 1) testing programs and clinics; 2) AIDS service and other community-based organizations; and 3) policy and system leaders within and beyond the health sector – to support the implementation of the provincial HIV strategy, priorities, and directions.

ABOUT THE ROLE

The Senior Biostatistician reports to the Director, OCS and is responsible for performing statistical analyses of OHTN Cohort Study and other OHTN HIV-related data. This role requires an advanced understanding of statistical methodologies for longitudinal observation data and expertise in the analysis of repeated measures and time-dependent data, with strong knowledge of cohort study designs and advanced statistical modeling. In addition, this role requires the candidate to be versed in data processing systems and storage for complex data from multiple sources, including the use of cloud platforms such as Azure, AWS, and others. Technical skills and applied experience in querying databases, ETL processes and pipelines, and statistical computer languages, such as SQL R, SAS, etc. are necessary. The successful candidate will lead statistical analysis efforts, collaborate with multidisciplinary teams, and contribute to the preparation of grants, research reports, scientific publications and presentations.

The Senior Biostatistician will provide statistical and data management consultation services to the OCS' external partners and other OHTN researchers, and also contributes to developing and maintaining OCS Data Warehouse tables and views and preparing data cuts from these research-ready data sets for external researchers. This includes developing standardized data transformation routines to convert raw data into data warehouse compatible formats. In addition, developing strategies to assess the quality of data received from the COS sites and other external linked data sources.

Statistical analysis:

- Conduct data scans and statistical analyses of OCS and other OHTN HIV-related project data, as required.
- Apply advanced statistical methods, including mixed-effects models, generalized estimating equations, survival analysis, and other time-varying methods to analyze and interpret complex longitudinal data.
- Implement statistical approaches and develop algorithms to handle missing data.
- Contribute to the development and writing of grants and other proposals by

performing sample size calculations, developing statistical analysis plans, and advising on selection of OCS data elements.

- Stay current with methodological advancements in longitudinal analyses and review technical documentation and statistical literature, as required.
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Data Warehouse Development and Maintenance:

- Contribute to the design, development, and optimization of the OCS Data Warehouse structure and performance.
- Develop standardized data transformation routines to convert raw data into formats compatible with Data Warehouse tables and transformations required to incorporate cloud-based real-time data into Data Warehouse views and tables.
- Implement and refine data quality assurance processes to detect and correct internal inconsistencies.
- Develop strategies to assess the quality of the data collected from OCS sites.
- Evaluate the linkage of OCS data with external data sources.
- Develop and maintain technical documentation and standard operating procedures (SOPs).

Prepare OCS data cuts:

- Prepare protocol-based OCS research-ready data sets and documentation for distribution to external OCS affiliated researchers.
- Prepare annual data cuts and documentation for affiliated organizations, such as ICES and others.
- Assess risk of residual disclosure for requested data elements.
- Investigate affiliated researchers queries about OCS data.

Develop and maintain OCS data release modules:

- Participate in developing and maintaining model and structure of OCS Data Warehouse.
- Develop standardized data transformation routines to convert raw data into formats compatible with Data Warehouse tables and transformations required to incorporate cloud-based real-time data into Data Warehouse views.
- Develop strategies to assess the quality of the data collected from OCS sites.
- Evaluate the linkage of OCS data with external data sources.
- Prepare documentation and standard operating procedures.

Consultation services and other duties:

- Provide statistical and data management consultation services to the OCS' external partners and other OHTN researchers.
- Support students affiliated with OCS or other OHTN HIV-related projects.
- Mentor and build capacity among junior staff by offering guidance on specific skills and techniques, reviewing code, and software proficiency, and supporting training opportunities.
- Prepare visual and verbal presentations and written reports and draft statistical analysis sections of manuscripts to be submitted for scientific publication.
- Participate in OCS meetings internally and externally with partners and sites as needed.

- Participate in scientific conferences and meetings as required.

ABOUT YOU

- Master's degree or higher in biostatistics, statistics, data science, or epidemiology with strong statistical analysis focus.
- 5+ years of experience in statistical analysis in biomedical, epidemiologic, or public health research
- At least 2 years working with longitudinal data
- Proficiency in SAS, SPSS, and R with advanced SAS programming skills
- Strong understanding of Data Warehouse architecture and proficiency in SQL programming skills
- Outstanding analytical skills as evidenced by scientific outputs and analyses undertaken as part of research projects
- Experience working with Azure Data Lake or comparable cloud-based data storage systems.
- Proficiency in Azure DevOps or similar platforms for code management, collaboration, and workflow automation.
- Excellent scientific writing skills.
- Strong team player committed to fostering an inclusive working environment with demonstrated superior written and oral communications skills
- Demonstrated ability to work independently and collaboratively with a diverse team
- Strong problem-solving
- Excellent organizational and project management skills
- Ability to manage competing and shifting priorities
- HIV/AIDS experience/knowledge, including social, psychological, and clinical issues
- Experience mentoring staff and leading projects
- Previous experience working as a Data Scientist an asset

HOW TO APPLY

If you are interested in this position, please submit your application via e-mail to careers@ohtn.on.ca

- Please use the **"2025.05 – Senior Biostatistician (Applied Data Science Focus)"** as the subject line
- Your cover letter and resume should be attached as a single PDF file and labelled as follow: **"Full Name – Senior Biostatistician (Applied Science Focus)"**. Your cover letter should describe and provide examples of your expertise in working with complex longitudinal data and data warehouses.

APPLICATION DEADLINE: OCTOBER 9TH, 2025

We would like to thank all applicants in advance for their interest in the OHTN, but only candidates receiving serious consideration will be contacted. No phone calls or agencies please.

We welcome those who strive to understand and appreciate the diversity of our network, population, and community. Committed to Anti-Racism and Truth & Reconciliation efforts, the OHTN is dedicated to

treating everyone respectfully and fairly. We are also committed to the greater involvement and meaningful engagement of people living with HIV/AIDS ([GIPA/MIPA](#)) in all that we do. We welcome applications from persons living with HIV/AIDS and from diverse backgrounds - no matter their race, ethnicity, sex, gender identity and expression, sexual orientation, nationality, socioeconomic status, religion, caste, language, age, and health or other status - to join our team.

We continuously act to implement our Anti-Black Racism and Truth & Reconciliation plans and our DEI policy, fostering equitable, inclusive and accessible processes throughout our entire organization. If you require any accommodation during the hiring process, please do not hesitate to let us know and we will work together to meet your needs.