



**Date of employment:** Available immediately

**Title of the position:** Data Architect

### **Job Description**

Come and help us address the COVID19 crisis by organizing data for large-scale international COVID19 research programs.

We are seeking a Data Architect with demonstrated skills in designing, implementing and maintaining modern data warehouses. Assist our data scientists in developing and maintaining an on-premise and Azure cloud institutional modern data warehouse. Our team integrates, organizes, and analyses the data of millions of patients treated in the Jewish General Hospital network. The candidate will work with the existing team to design, implement, maintain and operate this unique infrastructure and will have the opportunity to contribute to improving the health of hundreds of thousands of patients. The integration of these various data from source systems and their analysis requires extensive experience of various heterogeneous data formats (SQL Server, Oracle, PostgreSQL, XML, HL7, PDF, images, DICOM, waveforms, etc.) and analytical expertise (distributed analysis, machine learning and other artificial intelligence technologies, biostatistics).

**To submit your candidacy, you must have a minimum of 8 years of experience for the following expertise:**

- Strong experience working with large databases, data warehouses, data lakes, within the MS SQL Server platform on-premise and azure;
- Strong experience maintaining MS SQL Server on-premise and azure;
- Strong experience monitoring MS SQL Server on-premise and azure ;
- Strong experience designing and optimizing SQL queries, Indexes, Data Schemas, ProcSQL;
- Strong experience with PowerBI/SSRS on-premise and azure;
- Strong experience with SSIS and integrating with different platforms
  - SQL (e.g., MS SQL Server, PostgreSQL, MySQL, Oracle), MS Access, NoSQL (example: MongoDB), DICOM data
  - Communication interface systems between systems with various formats that are not a priori compatible (e.g., XML, HL7 or others).
- Strong experience (at least two years) working with Microsoft Azure data tools (Azure Data Factory, Azure Automation, Azure Data Catalog, Azure DevOps, Azure Data Lake Storage Gen2, Azure Data Bricks, Azure SQL DB ... )



**Preference is given to candidates with the following qualifications:**

- MS training and Certifications for MS SQL Server
- MS training and Certifications for Azure
- Data management training and certifications for Data Schema designs
- Experience working with Healthcare Data within the Quebec Health Network.
- Experience working with FHIR, MAPI, OMOP, CDR
- Experience working with machine learning algorithms and libraries:
  - Keras, TensorFlow, PyTorch, etc
- Demonstrated skills with scripted and other programming languages
  - Python, R, Bash, C#, SPARK, others.
- Experience with DevOps processes and CI/CD pipelines
- Experience working with collaboration systems and version management (git or other).
- Experience in software development life cycle and Agile methodologies.
- Experience with project management methodologies.

We offer 4 weeks of paid vacation, plus sick/personal days and a complete benefits package. Dress code for the position is business casual. We thank all those who apply, however only those selected for an interview will be contacted.

Please email your CV and a letter of presentation to : [diane.gaudreau@ladydavis.ca](mailto:diane.gaudreau@ladydavis.ca)