



**POSITION:** Data Engineer, NA Integrated Analytics (2023 New Grad - Toronto)

**LOCATION:** Toronto, ON

**ANTICIPATED START DATE:** 2023 (upon graduation)

*Together, we engage with everything we have and are, to help humankind act braver and better.*

As the world's leading reinsurance company with more than 40,000 employees in over 50 locations around the globe, Munich Re introduces a paradigm shift in the way you think about insurance. By turning uncertainty into manageable risk, we enable fundamental change. We recognize Diversity, Inclusion, and Belonging as a key priority with a culture that welcomes different thoughts and opinions. We dare to think big and are continuously innovating on behalf of our clients.

How can ML promote longer and healthier lives? Armed with decades of risk data, novel data sources, and a team of innovative data scientists, engineers, and domain experts, Munich RE is building solutions that are transforming the life insurance industry.

- Develop solutions that allow easier access to insurance and healthier lifestyles
- Build highly scalable products with best security, ML, DevOps practices
- Research bias and fairness, disease models, NLP & more
- Discover diverse careers with leadership opportunities
- Flexible remote/in-person work + focus on work-life balance
- Be part of a fast-growing team that values transparency & diversity

**Our Integrated Analytics (IA) team is recruiting for its 2023 class of permanent entry-level Data Engineers. We're looking for new/recent graduates who have a passion for data, technical aptitude, and an eagerness to work alongside our experienced professionals in this dynamic field.**

To learn more about the North American Integrated Analytics team, please visit our site:

<https://www.munichre.com/us-life/en/solutions/integrated-analytics.html>

#### **THE ROLE:**

Responsibilities may include, but will not be limited to the following:

- Contribute to various on-the-go projects, related to the following areas of concentration (as needed and as fits with your focus):
  - SOFTWARE ENGINEERING:
    - Create, test and support the development of Python based applications and predictive models deployed as RESTful microservices APIs
    - Participate in all stages of the software development lifecycle including QA and testing
  - DATA ENGINEERING:
    - Build and expand our ETL batch and streaming pipelining practices
    - Manage and secure relational databases for complex data relations
  - DEVOPS:
    - Containerize and deploy production applications on our Kubernetes cluster
    - Define, create, and build our CI/CD pipeline practices
    - Provision and manage enterprise cloud infrastructure via Infrastructure as Code
    - Manage and improve our observability stack
  - SECURITY:
    - Integrate security into all stages of the engineering pipeline and employ a "security first" attitude
    - Understand and simplify our complex networking stance
- Build data products with heavy reliance on cloud infrastructure
- Incorporate Git, testing, CI/CD workflows and PRs into any coding project
- Participate in various research projects in the field of machine learning and deep learning – collaborating with our greater team of scientists and engineers.

**QUALIFICATIONS:**

Specifically, we're looking for the following qualifications:

Technical:

- Undergraduate or Graduate degree in Computer Science, Engineering, Physics, Bioinformatics – or equivalent program;
- Familiarity with Python / other object-oriented language and software testing libraries (unittest / mock);
- Familiarity with web app development using Flask, SQL and FastAPI;
- Knowledge of relational database systems (RDMS) and data management;
- Working knowledge of linux commands;
- Ability to perform version control using Git and submit well-structured Pull Requests (PR);
- Experience in creatively and rapidly debugging for on-the-job issues.

Behavioral:

- Solid communication skills; spoken & written, formal/informal presentation;
- Able to learn quickly and independently and motivated to help others;
- Proven ability to thrive in a dynamic environment;
- Ability to independently research new tools and technologies.

Preferred (but not required):

- Familiarity with Azure or other cloud platforms and its related offerings;
- Exposure to authentication & authorization / networking / SQL ORM / PySpark } / containerization / Kubernetes / Ansible / Terraform / Airflow / Databricks;
- Previous exposure to insurance or financial services environment.

Note that this opportunity is open to both graduating students, as well as recent graduates who have obtained their degree within the past year.

**HOW TO APPLY**

**Interested candidates are to apply directly via the Munich Re portal at:**

**<https://bit.ly/3KSdKJ8>**

**Note that only applications received through this channel will be considered.**

Please note that only candidates who are selected for interview will be contacted directly.  
We thank all candidates for their interest.