MONTREAL
COLLEGE IT
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Job Description:

Job title	Teacher/Instructor in Big Data

About MCIT:

Montreal College of Information Technology is a pioneer institution focused on delivering fast-paced, intensive IT programs. MCIT is a national forerunner in producing competent professionals with an emphasis on fast-paced career-oriented technical education. Our main focus is on designing up-to-date programs in information technology. Consistent with our vision, Montreal College strives to provide, through its state-of-the-art technical capabilities, an empowering, conducive and inspirational learning experience to its technology learners to build their enduring prowess in a shorter yet intensive framework.

Job Description:

The AEC program in Big Data provides students with the tools and skills to collect, manage, analyze and interpret data. The program focuses on technologies and programming languages such as: Scala, Java, Kafka, Avro, Linux, Tableau, as well as Apache Hadoop Ecosystem. Instructors are expected to deliver quality lessons, as well as lab work that follow academic standards.

Responsibilities:

- Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.
- Maintain discipline in accordance with the rules and disciplinary systems of the college.
- Assist students and provide appropriate feedback on their work
- Instruct and guide students during lab hours
- Deliver program in stipulated time as per ministry regulations
- Update all necessary records accurately and completely as required by college regulations.
- Assign and grade homework, tests and assignments.
- Communicate with college staff to understand the program expectations.

Skills, Knowledge & Experience:

General Skills:

- Bachelor's Degree in Computer Science, Information Technology or equivalent field
- Minimum 2+ years hands-on experience in the Big Data Analyst/Data Engineer role
- One or more years of experience in Teaching (in the relevant field) preferred
- Proficiency in Hadoop Ecosystem.
- Experience in dealing with structured and unstructured data.

Soft Skills:

- Must possess excellent communication and presentation skills
- Ability to explain new ideas and unfamiliar concepts in a clear and concise way so that students can understand.
- Ability to handle students of different backgrounds effectively.
- Should be able to find ways to involve students in their lessons. If needed, may have to work with different learning styles to get the most out of each student.

Technical Skills:

Candidate can apply if their skills fall into any one of the below groups.

Group	Description
1	• Strong knowledge in fundamentals of big data concepts • Must have commanding experience in big data processing, Hadoop ecosystem and cloud. •Proven experience in understanding and designing solutions for big data problems. •Demonstrated ability in addressing business issues.
2	• In-depth understanding of programming concepts. • Proficiency in JAVA. • Experience with Scala programming. • Good knowledge of Linux shell and scripting • Must have experience in collaborating project with GitHub.
3(Big Data Storage)	•In-depth understanding of Data lakes concepts. •Experience with HDFS & YARN. •Must have experience in MapReduce, Sqoop and Zookeeper.
4(Big Data DBMS)	•In-depth understanding of relational and NoSQL Databases. •Must have experience in Big Data Analysis using Hive/JDBC/Parquet/Hbase.
5(Big Data Applications)	•In-depth understanding of Kafka data architecture. •Experience in Avro serialization framework •Proficiency in Spark architecture •Must have experience in Schema registry and schema compatibility checks

Additional Information:

- Job type: Part-time
- Shift: Morning, Evening, and/or Weekend
- Location: Montreal (Downtown)
- Salary to be discussed