

ELECTROMAGNETIC (EM) RESEARCHER

Who we are:

At Dias, our purpose is to create new technologies to image the earth and locate the resources that the world needs. We are passionate about technology, but nothing is more important than keeping our people safe and healthy.

Dias is a world leader in deploying solutions to help explore, map, and protect the subsurface. We operate globally from our home in Saskatoon with offices in Vancouver, Toronto, Mexico, and Chile.

Descriptions:

Dias is developing systems for both ground and airborne surveys using electromagnetic methods. These will include AEM (Airborne ElectroMagnetics), moving loop, fixed loop and distributed array EM solutions. The successful applicant will be responsible for testing and validating new survey techniques and instrumentation, analyzing timeseries data, plotting survey results and identifying noise or other system issues. Familiarity with computation of EM parameters, maxwells equations and EM data processing is expected. The position is located in Saskatoon, Canada.

Primary Responsibilities:

- EM data processing, modeling, and inversion (2D/3D)
- EM system characterization
- Survey design, planning and execution
- Able and willing to travel locally and internationally
- Analysis of timeseries data
- Development of software tools for EM data analysis
- Supervision of scientific equipment for geophysical field work

Prerequisites:

- MSc. or PhD. in Geophysics
- Sound knowledge in application and theory of electromagnetic geophysical methods, with a specialization in electromagnetics
- Knowledge of Maxwell's equations, and Fourier transforms
- Familiarity with frequency filters and wavelet analysis
- Experience in Airborne natural field Electromagnetics would be considered an asset
- Sound computer skills in Windows and Linux
- Any qualifications in the following areas would benefit the applicant, but are not required:
 - *Machine learning
 - *GIS
 - * Scientific development: Python programming, numerical optimization, statistical analysis.
- Eligible to work in Canada

Skills

- Ability to multitask and efficiently manage multiple projects at a time
- Proficient computer and technology related skills
- Ability to lead, manage and train employees
- Track record of publications in academic journals
- Effective written and verbal communication skills
- Ability to work under pressure
- Work well in a team

What is in it for you:

- This is a Full-time permanent position
- Benefits Package – including comprehensive Health and Dental coverage
- Life insurance and Disability insurance
- Company social events – beverages & snacks all day, and free lunch every Friday
- Minimum of 3 weeks paid vacation time per year

HOW TO APPLY

Send resume & cover letter to:

careers@diasgeo.com

Subject: Electromagnetic (EM) Researcher

Dias Geophysical Limited

2131 Airport Dr. Saskatoon SK S7L 7E1 306-700-6442



www.diasgeo.com

<https://www.linkedin.com/company/dias-geophysical/>