

Job opening: Data Scientist

Institute of Mine Seismology (IMS)

About the role

This is a permanent position in the Science & Technology sector at IMS in Somerset West (40km from Cape Town). We are looking for an ambitious young graduate with a MSc/PhD degree from a respected South African university in one of the following subjects:

- Applied Maths,
- Mathematical Statistics
- Machine Learning.

Candidates should be passionate about machine learning and have a statistical background, preferably in Bayesian statistics. Candidates should also have interest and ability in scientific programming. The ideal candidate should be able to work well in a small team, be energetic, flexible and a self-starter.

This position is in our data processing group, and would involve work mainly on the automatic processing of waveforms and related seismological fields: development of algorithms used for classification of seismic data recorded in mines around the world, the detection of the phase arrivals and the associated uncertainties/credible regions in location and source parameters. The candidate should be competent with all the machine learning techniques: supervised and unsupervised learning, deep learning, random forest etc. Python, Java and the NetBeans platform would be used. This role involves some customer interaction, presentations and training courses, as well as some international travel.

Skills/qualifications required:

- MSc/PhD in Math Stats/Machine Learning
- Computer programming background
- Aptitude and interest in scientific analysis
- Good communication skills (written and verbal) in English
- South African citizenship

About IMS

The Institute of Mine Seismology (previously known as ISS International) is the world leader in monitoring and understanding of mining-induced seismicity, with over 210 customers in 34 countries. The company is small (approximately 50 people) with a core of scientists and engineers. It has been stable and profit-making since its activities started in 1990. It's a very dynamic work environment, filled with intelligent and hard-working over-achievers.

How to apply

Please send a cover letter and your CV to Dr Cornel du Toit at cornel.dutoit@imseismology.org. Applications will be accepted until the right candidate is appointed.