

The Agricultural Research Council (ARC) is a premier science institution that conducts research with partners, develops human capital and foster innovation in support of the agricultural sector. It provides diagnostic, laboratory, analytical, agricultural engineering services, post-harvest technology development, agrochemical evaluation, consultation and advisory services, food processing technology services as well as various surveys and training interventions. Through its wider network of research institutes and experimental farms, the ARC provides a strong scientific base and a broadly distributed technology transfer capacity to the entire agricultural industry in South Africa.

The ARC-Natural Resources and Engineering (ARC-NRE) seeks to appoint MSc student to work on a new project funded by the Department of Science and Innovation based in Arcadia, Pretoria:

MSC STUDENT BURSARY: WATER ANALYSIS (SPECTROSCOPY TECHNOLOGIES)

Key Performance Areas:

- This project aims to pursue/continue research on the potential of using FT-IR spectroscopy to predict physical and chemical properties of irrigation water samples to facilitate rapid assessment of soil and water resources to aid decision-making in the context of agriculture and water resource management.
- Student focusing on data collection, laboratory research and data evaluation of water FT-IR spectroscopic methods for irrigation water samples.

Requirements:

- Hon's degree (or equivalent) in Environmental Science, Water Science, Mathematics, Physics, or similar quantitative fields.
- Applicant should be highly motivated graduates with a strong academic background.
- Programming experience (or willingness to learn) with Python, R or a similar language is essential, and experience with Github will be an added advantage.
- Good communication skills (written and verbal).

Enquiries: Dr G Jezile Email: JezileG@arc.agric.za

CLOSING DATE FOR APPLICATIONS: 18 MARCH 2024



Competitive remuneration package will be congruent with the scope, responsibilities, and the stature of the position. The appointment will be subject to a positive security clearance and preference will be given to designated groups in terms of the ARC Employment Equity Plan. The Agricultural Research Council is an equal opportunity employer and is committed to the principles and processes of Employment Equity Act.

Applications accompanied by covering letter, detailed CV (Including certified copies of certificates, supporting documents, copy of driver's license) must be emailed to: SCWCV@arc.agric.za

NB: Non-RSA citizens with work permit must attach certified copies as well as the names and particulars of three (3) traceable referees.

SAQA evaluation report must accompany foreign qualifications. Incomplete applications will not be considered. Applicants who do not receive any response four (4) weeks after the closing date must regard their applications as unsuccessful. The company has the right not to appoint.

