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-Vegetable, Industrial and Medicinal Plants (ARC-VIMP) seeks to appoint a highly skilled, experienced and dynamic persons to the following positions at Roodeplaat, Pretoria:

RESEARCHER - INDUSTRIAL PLANT BREEDING

Key Performance Area:

Project Management & Coordination

The Researcher is responsible for conducting Research Projects across the Institute; these include the following aspects of the projects.

- Research planning and Initiation.
- Equipment and Research Materials.
- Project Human Resources.
- Project Finances.
- Risk Management and Mitigation.
- Monitoring, Evaluation, reporting and project close out.

Research, Development, and Innovation

The Researcher is responsible for conducting Research, development and supporting innovation, these include supporting the following Research aspects.

- Invention.
- Translation.
- Commercialisation.
- Adoption and Use.

Research Collaboration

The Researcher is responsible for supporting strategic research collaboration and collaboration opportunities; these include.

- Strategic Research partnerships / networks / collaborators.
- Intra-Inter Institutional Collaboration & Partnerships.

Human Capacity Building

The Researcher is responsible for supporting Human Capacity Development that includes support of

- Project staff and students.
- Self.

Requirements:

- A PhD in Plant Breeding and/or genetics or closely related field.
- At least 3 years' experience in plant breeding research environment, post MSc with a national record of accomplishment on the level of a researcher.
- Experience in classical plant breeding techniques.
- Experience in molecular plant breeding techniques will be an added advantage.
- Record of building national and international partnerships and networks.
- Minimum of 3 peer reviewed publications relevant to Plant Breeding.
- Registration with a scientific and/or professional body will be an added advantage.
- Proven record of writing proposals.
- Proven record of accomplishment for generating external income for projects.
- Proven record of participating as a speaker nationally.
- Proven record for initiation, planning and execution of research projects, personnel management, and financial management of projects.
- Proven track record of mentoring and/or supervising/co-supervising students.
- Valid driver's license.

Enquiries: Dr W Jansen Van Rensburg: Tel: (012) 808 8000

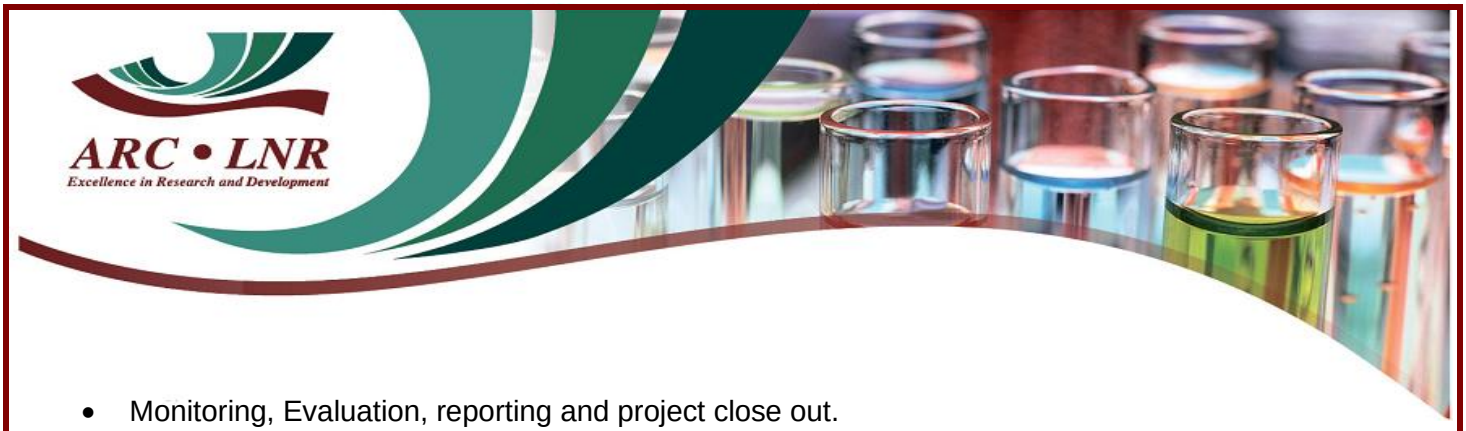
RESEARCHER - VEGETABLE PLANT BREEDING

Key Performance Area:

Project Management & Coordination

The Researcher is responsible for conducting Research Projects across the Institute; these include conducting the following aspects of the projects.

- Research planning and Initiation.
- Equipment and Research Materials.
- Project Human Resources.
- Project Finances.
- Risk Management and Mitigation.



- Monitoring, Evaluation, reporting and project close out.

Research, Development, and Innovation

The Researcher is responsible for conducting Research, development and supporting innovation, these include supporting the following Research aspects.

- Invention.
- Translation.
- Commercialisation.
- Adoption and Use.

Research Collaboration

The Researcher is responsible for supporting strategic research collaboration and collaboration opportunities; these include.

- Strategic Research partnerships / networks / collaborators.
- Intra-Inter Institutional Collaboration & Partnerships.

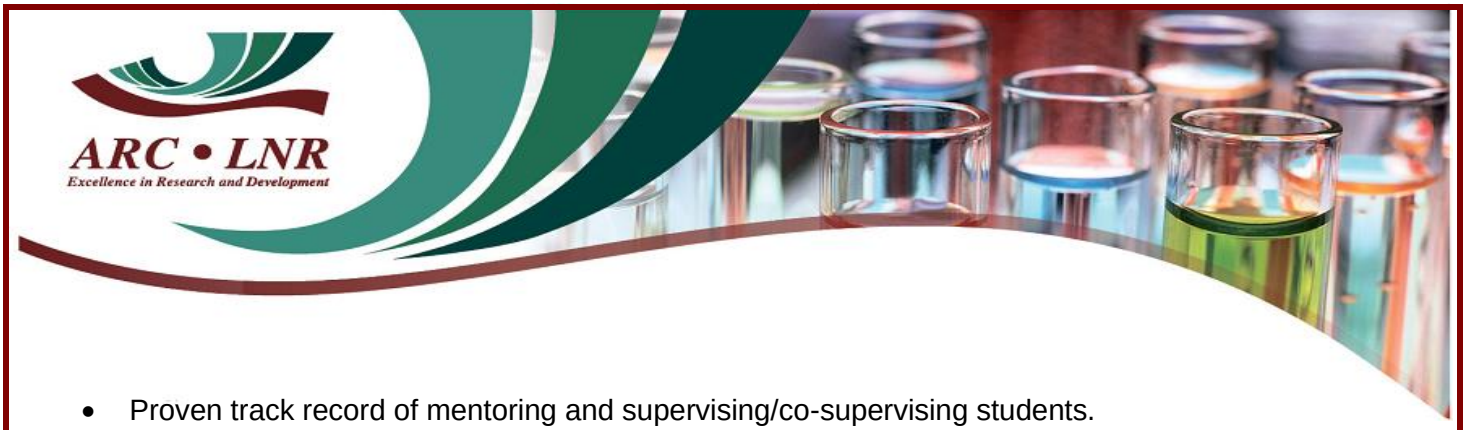
Human Capacity Building

The Researcher is responsible for supporting Human Capacity Development that includes support of

- Project staff and students.
- Self.

Requirements:

- Relevant PhD in Plant Breeding or related discipline.
- At least 3 years' experience in plant breeding in a relevant scientific research environment, post MSc with a national record of accomplishment on the level of a researcher.
- Experience in leafy or fruit vegetable breeding will be an added advantage.
- Experience in classical plant breeding techniques.
- Experience in molecular plant breeding techniques will be an added advantage.
- Record of building national and international partnerships and networks. The researcher works under guidance and with support of seniors.
- Minimum 3 peer reviewed publications relevant to Plant Breeding.
- Registration with a scientific and professional body will be an added advantage.
- Proven record of writing of proposals.
- Proven record of accomplishment for generating external income for projects.
- Proven record of participating as speaker nationally.
- Proven record for initiation, planning and execution of research projects, personnel management, and financial management of projects.



- Proven track record of mentoring and supervising/co-supervising students.
- Valid driver's license.

Enquiries: Dr M Truter: Tel: (012) 808 8000

RESEARCHER - *IN VITRO* LAB: TISSUE CULTURE

Key Performance Area:

Project Management & Coordination

The Researcher is responsible for conducting tissue culture-related Research Projects across the Institute; these include conducting the following aspects of the projects.

- Research planning and Initiation.
- Equipment and Research Materials.
- Project Human Resources.
- Project Finances.
- Risk Management and Mitigation.
- Monitoring, Evaluation, reporting and project close out.

Research, Development, and Innovation

The Researcher is responsible for conducting Research, development and supporting innovation, these include supporting the following Research aspects.

- Invention.
- Translation.
- Commercialisation.
- Adoption and Use.

Research Collaboration

The Researcher is responsible for supporting strategic research collaboration and collaboration opportunities; these include.

- Strategic Research partnerships / networks / collaborators
- Intra-Inter Institutional Collaboration & Partnerships

Human Capacity Building

The Researcher is responsible for supporting Human Capacity Development that includes support of

- Project staff and students.
- Self.

Requirements:

- PhD in Plant Biotechnology/Plant Physiology, Horticulture, or related fields.
- At least 3 years' experience post MSc in plant tissue culture, developing plant tissue culture protocols, with a national record of accomplishment on the level of a researcher.
- Collaboration: Record of building national and international partnerships and networks.
- The researchers work under guidance and with support of seniors.
- Minimum 3 relevant scientific publications in peer reviewed journals.
- Proven record of accomplishment for generating external income for projects.
- Proven record of participating as speaker nationally as part of master's and PhD level.
- Proven record for initiation, planning and execution of research projects, personnel management, and financial management of projects.
- Proven track record of mentoring and supervising/co-supervising other researchers and students.

Enquiries: Prof MW Bairu: Tel: (012) 808 8000

SENIOR RESEARCH TECHNICIAN - *IN VITRO* GENEBANK

Key Performance Area:

Project Management & Coordination

The Research Technician is responsible for conceptualising, designing, formulating, and initiating technical projects across the Institute with a researcher; these include leading the following aspects of project management.

- Project Planning and Initiation.
- Project Human Resources.
- Project Finances.
- Project technical risk management.

Research Support, Diagnostics and Other Services

The Research Technician is responsible for implementing and managing of technical projects as outlined by the researcher. These activities include the driving, leading and oversight of the following activities.

- Invention.
- Adoption, management, and use.
- Translation.
- Commercialisation.

Technology Transfer

The Research Technician is responsible for implementing and managing tissue culture technology transfer initiatives in the institution, these include.

- Intellectual Property Assessment.
- Prototype Development.
- Testing and Validation.
- Technology Partnerships.

Scientific Status Requirements

The Research Technician is responsible for supporting and managing scientific research endeavours; these include the following activities.

- Innovation and Commercialisation.
- Project / Programme impact.

Safety, health, and Environment

The Research Technician is Responsible for implementing and managing safety, health and environment compliance and standards, these include the following activities.

- Regulatory Compliance.
- Lab safety.
- Hazardous material disposal.

Human Capital Development

The Research Technician is responsible for human capacity development, which includes.

- Project staff.
- Self.

Requirements:

- MTech. Degree (or equivalent NQF 9) B degree or B Hons degree /MSc Degree in Biotechnology, Horticulture / Plant Production / Plant Biology, or related field,
- 6 -8 years applicable experience in plant tissue culture systems for B Hons degree and B degree candidates.
- 3-4 years applicable experience in plant tissue culture systems for MSc or MTech candidates.
- Agricultural research knowledge, skills and
- experience (especially on the applications of plant tissue culture.
- Ability to set-up and manage research experiments under tissue culture conditions.
- Sound understanding of the tissue culture environment workflows and the risk factors associated with it.

- Experience and good understanding of in vitro conservation and virus elimination techniques is a significant advantage.
- Evidence of presentation and report writing skills.
- Advanced computer literacy.

Enquiries: Ms Olwethu Madzikane: Tel: (012) 808 8000

SENIOR RESEARCH TECHNICIAN - CASSAVA BREEDING

Key Performance Area:

Project Management & Coordination

The Research Technician is responsible for conceptualising, designing, formulating, and initiating technical projects across the Institute with a researcher; these include leading the following aspects of project management.

- Project Planning and Initiation.
- Project Human Resources.
- Project Finances.
- Project technical risk management.

Research Support, Diagnostics and Other Services

The Research Technician is responsible for supporting and managing of technical projects. These activities include the driving, leading and oversight of the following activities.

- Invention.
- Adoption, management, and use.
- Translation.
- Commercialisation.

Technology Transfer

The Research Technician is responsible for supporting and managing technology transfer initiatives in the institution, these are as follows.

- Intellectual Property Assessment.
- Cultivar Development.
- Testing and Validation.
- Technology Partnerships.

Scientific Status Requirements

The Research Technician is responsible for implementing and managing scientific research endeavours; these include the following activities.

- Innovation and Commercialisation.
- Project / Programme impact.

Safety, health, and Environment

The Research Technician is Responsible for implementing and managing safety, health and environment compliance and standards, these include the following activities.

- Regulatory Compliance.
- Lab safety.
- Hazardous material disposal.

Human Capital Development

The Research Technician is responsible for human capacity development, which includes.

- Project staff.
- Self.

Requirements:

- MSc Degree or MTech. Degree (or equivalent NQF9) in Horticulture / Plant Production / Plant Breeding or related field, or B degree or B Hons degree in Horticulture / Plant Production / Plant Breeding or related field.
- 6 -8 years applicable experience in field trial management, research methods and data handling for B Hons degree and B degree candidates.
- 3-4 years applicable experience field trial management, research methods and data handling for MSc or MTech candidates.
- Agricultural research knowledge, skills, and experience (especially on cassava breeding and cultivation).
- Ability to set-up and manage research trials under open-field conditions.
- Understanding of weed control, soil cultivation methods, fertilization, spraying for disease and pest control.
- Experience and good understanding of cassava propagation techniques and breeding will be an added advantage.
- Evidence of presentation and report writing skills.
- Proficiency in MS office suite.

Enquiries: Dr Sunette Laurie: Tel: (012) 808 8000

SENIOR RESEARCH TECHNICIAN – AGRONOMY& HYDROPONICS

Key Performance Area:

Project Management & Coordination

The Research Technician 3 is responsible for conceptualising, designing, formulating, and initiating technical projects across the Institute; these include leading the following aspects of project management.

- Project Planning and Initiation.
- Project Human Resources.
- Project Finances.
- Project technical risk management.

Research Support, Diagnostics and Other Services

The Research Technician 3 is responsible for implementing and managing of technical projects. These activities include the driving, leading and oversight of the following activities.

- Invention.
- Adoption, management, and use.
- Translation.
- Commercialisation.

Technology Transfer

The Research Technician 3 is responsible for implementing and managing technology transfer initiatives in the institution, these are as follows

- Intellectual Property Assessment.
- Prototype Development.
- Testing and Validation.
- Technology Partnerships.

Scientific Status Requirements

The Research Technician 3 is responsible for implementing and managing scientific research endeavours; these include the following activities.

- Innovation and Commercialisation.
- Project / Programme impact.

Safety, Health and Environment

The Research Technician 3 is Responsible for implementing and managing safety, health and environment compliance and standards, these include the following activities.

- Regulatory Compliance.
- Lab safety.

- Hazardous material disposal.

Human Capital Development

The Research Technician 3 is responsible for human capacity development, which includes.

- Project staff.
- Self.

Requirements:

- Master's degree (NQF 9) in Horticulture / Plant Production or related field, plus 3 years applicable experience, OR BSc (Hons) degree or Postgraduate Diploma (or equivalent NQF 8), plus 6 years applicable experience.
- Agricultural research knowledge, skills and experience.
- Ability to set-up and manage research trials under open-field conditions.
- Experience and good understanding of hydroponic systems and other waterless cultivation, fertigation and spraying for disease and pest control.
- Demonstrable knowledge of irrigation scheduling, use of scientific equipment, and use of soil water content monitoring equipment.
- Experience and good understanding of vegetable and indigenous leafy crop production.
- Practical skills such as small repairs on irrigation system, tools and implements will be an added advantage.
- Experience in managing people will be an added advantage.
- Valid driver's license.

Enquiries: Dr Beverly Mampholo: Tel: (012) 808 8000

SENIOR RESEARCH TECHNICIAN - AGRONOMY

Key Performance Areas:

Project Management & Coordination

The Research Technician 3 is responsible for conceptualising, designing, formulating, and initiating technical projects across the Institute; these include leading the following aspects of project management.

- Project Planning and Initiation.
- Project Human Resources.
- Project Finances.
- Project technical risk management.

Research Support, Diagnostics and Other Services

The Research Technician 3 is responsible for implementing and managing of technical projects. These activities include the driving, leading and oversight of the following activities.

- Invention.
- Adoption, management, and use.
- Translation.
- Commercialisation.

Technology Transfer

The Research Technician 3 is responsible for implementing and managing technology transfer initiatives in the institution, these are as follows.

- Intellectual Property Assessment.
- Prototype Development.
- Testing and Validation.
- Technology Partnerships.

Scientific Status Requirements

The Research Technician 3 is responsible for implementing and managing scientific research endeavours; these include the following activities.

- Innovation and Commercialisation.
- Project / Programme impact.

Safety, Health and Environment

The Research Technician 3 is Responsible for implementing and managing safety, health and environment compliance and standards, these include the following activities.

- Regulatory Compliance.
- Lab safety.
- Hazardous material disposal.

Human Capital Development

The Research Technician 3 is responsible for human capacity development, which includes.

- Project staff.
- Self.

Requirements:

- Master's degree (NQF 9) in Horticulture / Plant Production or related field, with 3 years applicable experience, OR BSc (Hons) degree or Postgraduate Diploma (or equivalent NQF 8), plus 6 years applicable experience.

- Agricultural research knowledge, skills and experience.
- Ability to set-up and manage research trials under open-field conditions.
- Experience and good understanding of weed control, soil cultivation methods, fertilization, spraying for disease and pest control, irrigation systems (installation, operation and maintenance), soil health and sustainable field management.
- Demonstrable knowledge of irrigation scheduling, use of scientific equipment, and use of soil water content monitoring equipment.
- Experience and good understanding of vegetable and indigenous leafy crop production will be an added advantage.
- Practical skills such as small repairs on irrigation system, tools and implements will be an added advantage.
- Experience in managing people will be an added advantage.
- Valid driver's license.

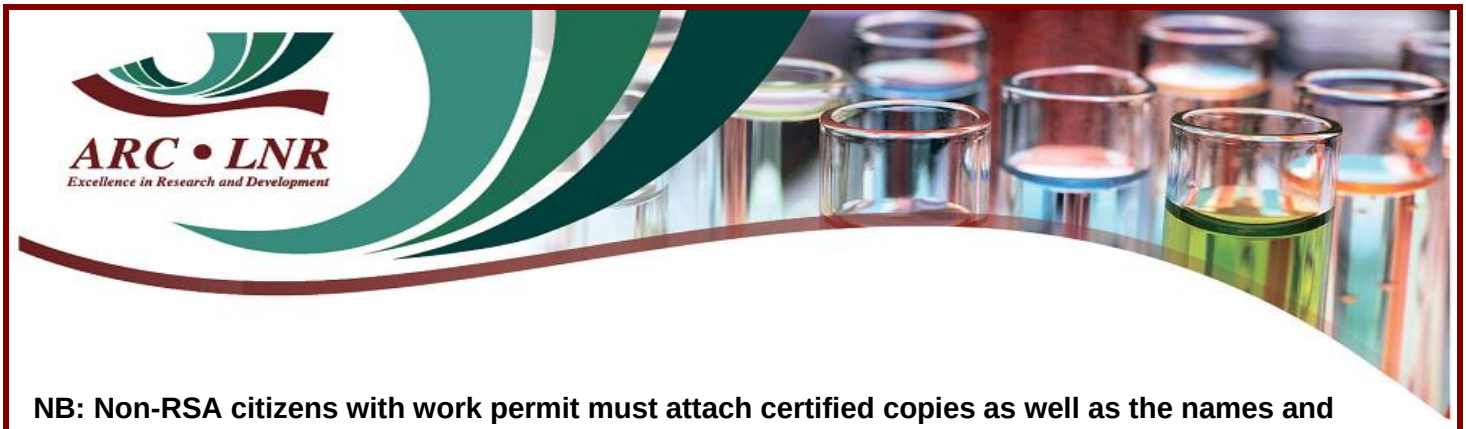
Enquiries: Dr Beverly Mampholo: Tel: (012) 808 8000

CLOSING DATE FOR APPLICATIONS: 21 JUNE 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. Permanent appointments are subject to six (6) months' probation period. 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 attached on the form.

- To apply for **Researcher Industrial Plant Breeding** https://forms.office.com/r/3YykSi3dnC
- To apply for **Researcher Plant breeding LLFV** https://forms.office.com/r/E8vHcqWhF4
- To apply for **Researcher In Vitro Lab: Tissue Culture** https://forms.office.com/r/R8GhrpUm0B
- To apply for **Senior Research Technician In Vitro GenBank** https://forms.office.com/r/qrgmgNmDQR
- To apply for **Senior Research Technician** CASSAVA https://forms.office.com/r/WH4DQJpbQw
- To apply for **Senior Research Technician Agronomy, Hydroponics** https://forms.office.com/r/90NUHA7wWT
- To apply for **Senior Research Technician Agronomy, Open Field** https://forms.office.com/r/9wvTe8RRua



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.