



## FACULTY FACT SHEET



### ON GOOD AUTHORITY



#### A message from the executive dean, Prof David Modise

The Faculty of Natural and Agricultural Sciences offers diverse and interesting qualifications, characterised by relevant and integrated training. Here, students develop life skills that enable them to handle challenges in the workplace.

Our academic staff are diligent and committed to students and research activities. Some of our staff also enjoy international recognition. The Faculty of Natural and Agricultural Sciences strives to equip undergraduate and postgraduate students with knowledge and life skills for successful careers. Our core business is education, research, and the implementation of expertise in a socially engaged manner. We strive to demonstrate this excellence, nationally and internationally.

### THIS IS US

We offer quality training that includes the general moulding of students, personal attention, exposure to modern equipment and meaningful outcome-based academic programmes.

#### Faculty facts

- The NWU is rated among the top 4,2% of universities in the world (Center for World University Rankings).
- The Faculty of Natural and Agricultural Sciences excels in research and innovation and has 100 NRF-rated scientists.
- Our facilities include a state-of-the-art weather radar on the Lekwena Wildlife Estate in Potchefstroom with an additional weather station at our Vanderbijlpark Campus.
- We have two astronomy sites with top-of-the-range equipment: one at the Mahikeng Astronomical Observatory and the second at the Nooitgedacht farm near Potchefstroom. We also have a sun telescope on the Potchefstroom Campus that is used for research and recruitment activities.
- Staff from our Unit for Environmental Sciences and Management are world-leading researchers in their fields, with some 27 organisms named after them.
- Our Centre for Radiation Science and Technology works closely with nuclear industry bodies such as the National Nuclear Regulator and the International Atomic Energy Agency.
- We offer services to the public such water quality testing, eco-analytic tests, statistical consultation services, instrument making, screening for rare metabolic diseases, and genetic testing.
- The Centre for Human Metabolomics hosts the national metabolomics platform and is the only site to offer newborn screening for treatable rare genetic diseases in Africa. It is also host to the national Nngwe Project that aims to address the plight of rare disease patients in South Africa.



#### Internationally known

The NWU proudly represents the African continent on the global stage as one of the largest and most respected universities in the world. Well known for its excellence in teaching-learning and research, the university boasts a student population that is representative of over 65 different nationalities, highlighting the NWU's global competitive advantage.

Adding to the NWU's high-quality global footprint are its strategic international collaborations with experts and other institutions of higher learning.

The NWU takes great pride in the quality of its comprehensive undergraduate and postgraduate programmes, as well as its proven research track record. It is therefore no surprise that employers the world over hold NWU graduates in high regard.



This is us

Schools and programmes

Research

Applications

### Our faculty in numbers

(Staff and student figures as on 25 April 2024)



Undergraduate students:  
6 545



Postgraduate students:  
1 256



International students:  
237



Academic staff:  
547



Support staff:  
644



NRF-rated researchers:  
100

## SCHOOLS AND PROGRAMMES



### The faculty consists of six schools:

- School of Physical and Chemical Sciences
- School of Biological Sciences
- School of Geo and Spatial Sciences
- School of Agricultural Sciences
- School of Mathematical and Statistical Sciences
- School of Computer Science and Information Systems

### The faculty has two centres at an undergraduate level:

- The Centre for Business Mathematics and Informatics (CBMI)
- The Indigenous Knowledge Systems Centre (IKS) on the Mahikeng Campus

## RESEARCH

### Research chairs

- DST/NRF Research Chair in Astrophysics and Space Physics (SARChI)
- DST/NRF SA-NAM Bilateral Research Chair in Astronomy and Astrophysics (SARChI)
- Centre for Business Mathematics and Informatics (CBMI)
- Centre for Water Sciences and Management (CWSM)

### Hosted platforms, centres and institutes

- DST/NRF Centre in Indigenous Knowledge Systems (CIKS)
- Centre for Human Metabolomics (CHM)
- Centre for Applied Radiation Science and Technology (CARST)

### NWU research entities

- Centre of Excellence for Space Research
- Unit for Data Science and Computing (UDSC)
- Unit for Environmental Sciences and Management (UESM)
- Chemical Resource Beneficiation (CRB)
- Human Metabolomics (HM)
- Pure and Applied Analytics (PAA)
- Material Science Innovation and Modelling (MaSIM)
- Food Security and Safety (FSS)



## APPLICATIONS

### Admission requirements

The Faculty of Natural and Agricultural Sciences has 11 different admission requirements for various diploma and degree courses. [Click here](#) for detailed information.

### How do I apply?

Please refer to our [website](#) for online application.

### Money matters

For a wide range of bursaries and financial support, please contact 018 299 2672 or visit our [website](#).

### We want to hear from you

Phone 018 852 761 (undergraduate and honours) or 018 299 2816 (higher degrees). You can also send an email to [Hein Fielies](#) (undergraduate and honours) or [Farzana Hussain](#) (higher degrees), or visit our [website](#).

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