

The University of KwaZulu-Natal (UKZN) is committed to meeting the objectives of Employment Equity to improve representativity within the Institution. Preference will be given to applicants from the designated group in accordance with our Employment Equity Plan

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

**ASSOCIATE PROFESSOR/ SENIOR LECTURER (ASTRONOMY)
SCHOOL OF MATHEMATICS, STATISTICS & COMPUTER SCIENCE
WESTVILLE CAMPUS**

REFERENCE NO.: MSCS06/2022

The School is the largest single school of its kind in South Africa. In Mathematical Sciences the School offers a vibrant educational and research environment covering a variety of fields, including Astrophysics and Cosmology. The School has many well-established national and international collaborative research linkages.

The School is expanding its research profile in the area of observational extragalactic astronomy and cosmology with investments in faculty and postdoctoral research positions, including support for travel and postgraduate students.

Members of the Astrophysics Research Centre (ARC) at UKZN have interests in theoretical and observational cosmology including Large-Scale Structure, Galaxy Evolution and the Cosmic Microwave Background, and are actively involved in the Atacama Cosmology Telescope Project, the Simons Observatory and the Rubin Observatory LSST. UKZN is leading the Hydrogen Intensity mapping and Realtime Analysis eXperiment (HIRAX) targeting dark energy and Fast Radio Bursts. ARC has strong international research links with a number of leading institutions abroad, including Princeton University, McGill University, ETH-Zurich, University of Geneva and the University of Paris. The applicant will have access to major South African telescope facilities, including the Karoo Array Telescope (MeerKAT), the Southern African Large Telescope (SALT) and HIRAX. Together with ARC members, the applicant will pursue world-class research through the use of radio, optical and other multi-wavelength datasets for extragalactic astronomy and cosmology studies.

The successful candidate will lecture undergraduate and postgraduate level courses, actively participate in research activities, grow the Astronomy research programmes of the School, and carry out some administrative tasks as determined by the academic discipline leader, the line manager for this post.

The successful applicant will report to the Academic Leader of the Discipline.

Minimum Requirements:

Associate Professor:

- A PhD degree focused on Astrophysics or Cosmology
- Experience in teaching at a tertiary institution
- A current and sustained research publication record in observational extragalactic astronomy and cosmology as evidenced by SAPSE/ISI journal publications
- Successful supervision of postgraduate students including PhD students in the areas of observational extragalactic astronomy and cosmology
- Demonstrated ability to attract external research funds

Senior Lecturer:

- A PhD degree focused on Astrophysics or Cosmology
- Experience in teaching at a tertiary institution
- A current and sustained research publication record in observational extragalactic astronomy and cosmology as evidenced by SAPSE/ISI journal publications
- Successful supervision of postgraduate students in the areas of cosmology and observational extragalactic astronomy

This appointment will be made in line with the University Guidelines/benchmarks which are available on the University Vacancies website on <http://vacancies.ukzn.ac.za/academic-process-procguides.aspx>

Enquiries and details about the post, including the job profile, please contact the Academic Leader of Mathematics, Professor S Ray by email: rays@ukzn.ac.za . For information about research in the recruitment focus area can be found on the ARC website at <https://astro.ukzn.ac.za/>

Appointment to this position will be on the January 2018 Conditions of Service.

The total remuneration package offered includes benefits.

The closing date for receipt of applications is 18 November 2022.

Applicants are required to complete the relevant application form which is available on the Vacancies website at www.ukzn.ac.za. Completed forms may be sent to Recruitment-aes@ukzn.ac.za. Advert Reference Number MUST be clearly stated in the subject line.

Kindly note that the University of KwaZulu-Natal ("the University") is required to process any Personal Information (as defined by the Protection of Personal Act, 2013 "POPIA") submitted by candidates when applying for positions at the University. The provision of the Personal Information is a requirement in terms of the University's recruitment and selection process. The retention of any personal information is as a consequence of the University being bound by legislative requirements and / or good governance practices as well as record keeping for statistical purposes. The University will endeavour to ensure that the appropriate security measures are in place and implemented for both electronic and paper-based formats that are used for processing of the personal information recorded through this recruitment and selection process.