

**Lecturer/Senior Lecturer Position in Astrophysics Research Group,
Stellenbosch University**
Deadline: 25th June 2024

The Department is seeking an energetic expert (one position) in astrophysics who can conduct research in astronomy and astrophysics and teach in all areas of physics. Our astrophysics group focuses on connecting fundamental physics with astronomical observations and aims at understanding the fundamental laws of the Universe and unravelling the nature of dark matter and dark energy. In particular, the research areas of the epoch of reionisation, extragalactic astronomy, the early Universe, dark matter indirect detection, neutron stars and black holes are actively investigated. The research group is also heavily involved in South Africa's MeerKAT, SKA, HERA telescopes, and several international projects such as LSST (Vera C. Rubin Observatory), FAST and CMB Stage-4.

The Department of Physics is responsible for both teaching and research in physics at Stellenbosch University (SU) and offers an undergraduate physics degree as well as postgraduate degrees. It also has strong links with other faculties and schools and offers many service modules. The Department has established research programmes in photonics and laser physics, nuclear physics, theoretical physics and astrophysics. Details of the research programmes are available at <https://www.sun.ac.za/physics> and <https://physics.sun.ac.za/astro/>

The basic requirements of the candidate are:

- A PhD in physics, astronomy, or applied mathematics (with research focus on astrophysics or cosmology);
- Good verbal and written communication skills in English.
- Teaching and coordinating undergraduate and postgraduate modules;
- Actively conducting research and publishing in peer-reviewed journals in a field aligned to one of the Department's research focus areas in astrophysics;
- Recruiting and supervising postgraduate students in astrophysics;
- Establishing a research group in a field aligned to one of the research focus areas in the Department, with strong involvement in either HERA telescope (Hydrogen Epoch Reionisation Array) or MeerKAT (SKA Precursor) telescope;
- Securing research funding;
- Participating in academically relevant departmental and Faculty activities, as required.

For appointment as **lecturer**, we require:

- Teaching experience in physics (as lecturer, or teaching assistant/tutor at tertiary level);
- An active research interest in astrophysics and cosmology, preferably (but not limited to) the epoch of reionisation, and Pulsar Timing Array.

For appointment as **senior lecturer**, we require

- Proven ability and commitment to teaching physics at both undergraduate and postgraduate level;
- Evidence of recent research in astrophysics and cosmology, preferably (but not limited to) the epoch of reionisation, and Pulsar Timing Array;
- Evidence of a sustained publication output as first author in high quality international journals;
- Proof of successful postgraduate supervision as main supervisor, at least at master's level;
- Proven ability to seek external funding.

Applicants invited for interviews will be expected to present a lecture on their recent research to demonstrate their knowledge and communication skills.

Inquires of this Job:

Attention To: Prof. Shaun Wyngaardt/ Prof. Yin-Zhe Ma

Subject: Inquiry about Stellenbosch Lecturer/Senior Lecturer Position

Email: shaunmw@sun.ac.za, mayinzhe@sun.ac.za

Application:

Click on <https://www.sun.ac.za/english/careers>

Then for internal or external applicants, search “Physics” in the Keyword. Then choose Vacancy Ref. “NW03.106.0524”. Click on “Apply” on the right upper corner of the webpage and follow the guidance to upload relevant documents.

Deadline:

Complete applications received by **June 25, 2024** will be given full consideration.