Postdoctoral Fellowship in Cosmology & Astrophysics at AIMS

The Cosmology & Astrophysics Group at the African Institute for Mathematical Sciences invites applications for a Postdoctoral Fellowship, starting in 2027. The Group is led by Prof Amanda Weltman. Members conduct research on a wide range of theoretical physics, cosmology and astrophysics problems, with a particular focus on bridging observation and theory. The position is targeted towards research on Fast Radio Bursts with the HIRAX experiment.

Our group members also have active involvement in MeerKAT Large Survey Projects (LSPs), the MeerKAT Pulsar Timing Array project and other pulsar focused MeerKAT Open Time projects, the HIRAX experiment and IAXO at CERN. There are additional opportunities to perform joint work across all group research areas, including astrophysics, machine learning and theoretical cosmology more broadly and opportunities to join external collaborations, including work on MeerKAT, IAXO, the SKA and the HIRAX experiment.

Requirements

- Possess a PhD in Physics, Applied Mathematics or Astronomy within the last 5 years
- a track record of accomplishment and independence in their research.
- We will consider candidates with a range of interests related to cosmology and astrophysics but priority will be given to those with Fast Radio Burst and/or pipeline software experience.

The appointment must comply with the University's approved policies, procedures and practices for the postdoctoral sector, and is subject to the rules and approval of the African Institute for Mathematical Sciences, the University of Cape Town and the National Research Foundation of South Africa. The successful applicant will be required to register as a Postdoctoral Research Fellow at the University of Cape Town.

Cape Town is an extremely beautiful city, surrounded by natural beauty. With beaches, mountains and forests only a short distance from the city centre and campus, Cape Town offers a perfectly balanced lifestyle. It is a particularly wonderful place to live if you enjoy outdoor activities. The city offers a wonderfully cosmopolitan atmosphere at a relatively low cost of living. AIMS is located in Muizenberg by the beach and is an exceptional place to live and work.

Interested candidates should send a CV, a research proposal (2-3 pages), and arrange for three letters of recommendation to be sent to melissa.largier@uct.ac.za. Please use the following format in the subject line: YOURNAME, AIMS Postdoc 2027. The closing date for applications is **8 December 2026.** Screening of candidates will start immediately and will continue until the positions are filled. Any queries can be sent to Melissa at melissa.largier@uct.ac.za or to Professor Amanda Weltman at amanda.weltman@uct.ac.za.

The University of Cape Town reserves the right to:

- *disqualify ineligible, incomplete and/or inappropriate applications*
- *change the conditions of award or to make no awards at all*



