invites high-flying students looking to get involved in radio astronomy, MeerKAT and the Square Kilometre Array to apply for postgraduate bursaries for 2020
Closing date for applications: 15 October 2019

Rhodes University has established the Centre for Radio Astronomy Techniques and Technologies (http://www.ratt-ru.org), based around the SKA Research Chair in RATT, with the aim of furthering research into data processing algorithms, novel calibration & imaging techniques, and innovative observational methods. We have extensive collaborations with leading international radio astronomy groups, we are closely involved with South African Radio Astronomy Observatory (SARAO) and the MeerKAT, C-BASS and HERA telescopes in the Karoo, and we expect to play a large role in the design and development of the Square Kilometre Array. Our activities range from observational radio astronomy programs with MeerKAT and other telescopes, to algorithm design, software implementation, development of mathematical methods and frameworks for use in radio astronomy, and processing of observational data from existing radio telescopes. We have research projects of various scope and level available to suit students with a variety of aptitudes, from low-level software and algorithm work, to high-level mathematics and physics. Applicants should have a strong academic record in one or preferably more of the following subjects: astronomy, computing science, mathematics and/or applied mathematics, physics, statistics, signal processing.

Please see http://www.ratt-ru.org/research-areas.html for more information on potential research areas and projects.

Bursaries are now available for 2020. Funding levels are linked to SARAO bursary levels. As a guideline, for 2019 these were:

- Honours (1 year): R140 000
- Masters (2 years duration): R134 000 p.a., plus R26 000 one-off equipment grant, plus R28 000 p.a. travel grant
- Doctoral (3 years duration): R155 000 p.a., plus R38 000 one-off equipment grant, plus R34 000 p.a. travel grant

PhD and MSc bursaries are renewable on an annual basis subject to satisfactory
academic progress. Please note that bursaries can only be awarded to candidates registering at Rhodes University for postgraduate or Honours research with a RATT-affiliated supervisor.

Priority for funding will be given to South African citizens and permanent residents, followed by candidates from the SKA Africa partner countries (Botswana, Ghana, Kenya, Madagascar, Mauritius, Mozambique, Namibia, Zambia). Candidates from the rest of the world will be considered on an exceptional basis only.

Applicants should prepare the following documents: a motivational letter (including the applicant's background and intended subject of study), detailed Curriculum Vitae, copies of all academic transcripts, and details of three referees. Applications should be submitted by e-mail to Prof O. Smirnov, o.smirnov@ru.ac.za. Shortlisted applicants will be asked to have their referees e-mail their reference letters to the same address at a later date.