Research Associate (Limited Term) - Radio Polarimetry

Job Number: 1701829

Description: The Dunlap Institute for Astronomy and Astrophysics at the University of Toronto invites applications for a Research Associate in Radio Polarimetry (Limited Term). The appointment is for three years, with the possibility of renewal, subject to funding. The anticipated start date is September 1, 2018.

The responsibilities will be as follows:

- 75%: the production of science-ready data products from new radio polarization surveys using the Very Large Array Sky Survey (VLASS), the Canadian Hydrogen Intensity Mapping Experiment (CHIME) and the Australian Square Kilometre Array Pathfinder (ASKAP), supervised by Prof Gaensler and in collaboration with the rest of the VLASS, CHIME and ASKAP teams.
- 25%: self-directed research in Galactic or extragalactic radio astronomy, in consultation with Prof Gaensler.

In all these activities, there is the expectation that the appointee will supervise the work of undergraduate and graduate students.

The Dunlap Institute pursues groundbreaking astronomical research across the electromagnetic spectrum, through innovative approaches to instrumentation, data-driven science and observations, alongside a substantive commitment to outreach and training. The Dunlap Institute is co-located with and has strong ties to the University's Department of Astronomy and Astrophysics (DAA) and to the Canadian Institute for Theoretical Astrophysics (CITA). These three units together host over 130 staff and students in astronomy, who conduct a diverse research program across instrumentation, observations, computation and theory.

The Dunlap Institute is located on a beautiful 19th century campus in the heart of one of the world's great cities. Rated as having one of the highest standards of living in the world, Toronto offers a huge range of indoor and outdoor pursuits, outstanding food and music, and a vibrant and diverse cultural community.

Qualifications: Education

PhD or equivalent certification in astrophysics, astronomy or physics

Required Experience

- Experience in radio polarization processing
- Advanced skills in radio interferometry, radio polarimetry, radio astronomy pipelines, and survey science

- A record of lead-author publications on Galactic or extragalactic radio astronomy in high-impact scientific journals
- Demonstrated excellence in scientific writing and scientific communication
- Demonstrated ability to work with students
- Demonstrated ability to work effectively with a team

Preferred Experience

- At least one year of relevant postdoctoral experience
- Some understanding of radio astronomical instrumentation and polarization calibration.

Travel: Extended

Notes: Applicants should apply online at the link below and include a covering letter, curriculum vitae, list of publications, and the e-mail addresses of three referees by December 1, 2017. Questions regarding this position should be directed to Prof. Bryan Gaensler at bgaensler@dunlap.utoronto.ca.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/persons of colour, women, Indigenous/Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

All qualified individuals are encouraged to apply; however, Canadians and permanent residents will be given priority.

Employee Group: Research Associate, Limited Term
Appointment Type: Grant - Term
Schedule: Full-time
Pay Scale Group and Hiring Rate: R01 -- Research Associates (Limited Term): $42,264 - $79,245
Job Field: Research Associate (Limited Term)
Job Closing: Dec 1, 2017

To apply: https://utoronto.taleo.net/careersection/10000/jobdetail.ftl?job=1701829