

# **Position Description**

College/Division:	ANU College of Science			
Faculty/School/Centre:	Research School of Astronomy and Astrophysics			
Department/Unit:				
Position Title:	Postdoctoral Fellow			
Classification:	Academic Level A			
Position No:	TBA			
Responsible to:	Mark Krumholz			
Number of positions that report to this role:	1			
Delegation(s) Assigned:	NA			

## **PURPOSE STATEMENT:**

The Research School of Astronomy and Astrophysics (RSAA) is the leading research school in Australia in the field of astronomy and astrophysics, and has been ranked number 10 in the world in space science. The School has world-class staff and students, and an exceptional track record in academic publishing, teaching, and funding. The Postdoctoral Fellow will be responsible for contributing towards the research efforts of Mark Krumholz's group around the structure, dynamics, and composition of the interstellar medium, including star formation and galactic winds. The role will be responsible for carrying out analytic, numerical, and/or statistical modelling and analysis related to these topics.

## **KEY ACCOUNTABILITY AREAS:**

# **Position Dimension & Relationships:**

The Postdoctoral Fellow will report directly to Professor Mark Krumholz and will be responsible for interacting with other members (students, PDRAs, etc.) of Krumholz's group, as well as other members of the School, University and wider astronomy community.

# **Role Statement:**

Under the broad direction of the Mark Krumholz, the Postdoctoral Fellow will:

- Undertake independent research in the area of interstellar medium with a view to publishing original and innovative results in refereed journals, present research at academic seminars and at national and international conferences, and collaborate with other researchers at a national and international level. This includes working as part of a team on an externally funded project subject to deadlines
- 2. Collaborate with senior staff to actively seek and secure external funding, assist to prepare and submit research proposals to external funding bodies as appropriate
- 3. Subject to the requirements of the funding source and where an opportunity exists, the occupant may be encouraged/asked to contribute to the teaching activities of the School at the undergraduate and graduate levels. This includes, but is not limited to, the preparation and delivery of lectures and tutorials, the preparation of online material, marking and assessment, consultations with students or acting as subject coordinators
- 4. Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Assist with supervision of research students
- 5. Assist to supervise research support staff in your research area
- 6. Actively contribute to all aspects of the operation of the School
- 7. Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public
- 8. Maintain high academic standards in all education, research and administrative endeavours
- 9. Comply with all ANU policies and procedures, and in particular those relating to work health and safety and equal opportunity
- 10. Undertake other duties as required, consistent with the classification of the position.

### **Skill Base**

A **Level A Academic** will normally have completed four years of tertiary study in the relevant discipline and/or have equivalent qualifications and/or research experience.

In many cases a position at this level will require an honours degree or higher qualifications or equivalent research experience

Research experience may have contributed to or resulted in publications, conference papers, reports or professional or technical contributions that give evidence of research potential.

# **SELECTION CRITERIA:**

- A PhD (or awarding of a PhD within six months of appointment commencement) in astronomy, physics, or a closely related field, or equivalent qualifications and experience in a related area, with a track record of independent research in the field of interstellar medium as evidenced by publications in peer-reviewed journals and presentations at conferences
- 2. Experience that is relevant to interstellar medium research in some or all of the following areas: structure, dynamics, and composition. Specific research experience in star formation and galactic winds would be an advantage but is not essential.
- 3. An ability and commitment to contribute to bids for competitive external funding to support individual and collaborate research activities
- 4. Ability and willingness to teach at all levels within the scope of the project
- 5. The ability to assist in the supervision of students working on research projects
- 6. The ability to work as part of a team and to deadlines
- 7. Excellent oral and written English language skills and a demonstrated ability to communicate and interact effectively with a variety of staff and students in a cross-disciplinary environment and to foster respectful and productive working relationships with staff, students and colleagues at all levels
- 8. A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.

Supervisor/Delegate Signature:		Date:	
Printed Name:	Mark Krumholz	Uni ID:	

References:	
General Staff Classification Descriptors	
Academic Minimum Standards	

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# **Pre-Employment Work Environment Report**

# **Position Details**

College/Div/Centre	College of Science	Dept/School/Section	RSAA
Position Title	Postdoctoral Fellow	Classification	Academic Level A
Position No.		Reference No.	

In accordance with the Occupational Health and Safety Act 1991 the University has a duty of care to provide a safe workplace for all staff.

- This form must be completed by the supervisor of the advertised position and forwarded with the job requisition to Appointments and Promotions Branch, Human Resources Division. Without this form jobs cannot be advertised.
- This form is used to advise potential applicants of work environment issues prior to application.
- Once an applicant has been selected for the position consideration should be given to their inclusion on the University's Health Surveillance Program where appropriate - see . http://info.anu.edu.au/hr/OHS/\_\_Health\_Surveillance\_Program/index.asp Enrolment on relevant OHS training courses should also be arranged – see http://info.anu.edu.au/hr/Training\_and\_Development/OHS\_Training/index.asp
- 'Regular' hazards identified below must be listed as 'Essential' in the Selection Criteria see ' Employment Medical Procedures' at http://info.anu.edu.au/Policies/\_DHR/Procedures/Employment\_Medical\_Procedures.asp

Signature:

Potential nazarus						
Please indicate whether the duties associated with appointment will result in exposure to any of the following potential hazards, either as a <b>regular</b> or <b>occasional</b> part of the duties.						
TASK	regular	occasiona	al	TASK	regular	occasional
key boarding	Х			laboratory work		
lifting, manual handling				work at heights		
repetitive manual tasks				work in confined spaces		
catering / food preparation				noise / vibration		
fieldwork & travel				electricity		
driving a vehicle				•		
NON-IONIZING RADIATION				IONIZING RADIATION		
solar				gamma, x-rays		
ultraviolet				beta particles		
infra red				nuclear particles		
laser						
radio frequency						
CHEMICALS				BIOLOGICAL MATERIALS		
hazardous substances				microbiological materials		
allergens				potential biological allergens		
cytotoxics				laboratory animals or insects		
mutagens/teratogens/ carcinogens				clinical specimens, including blood		
pesticides / herbicides				genetically-manipulated specimens		
				immunisations		
OTHER POTENTIAL HAZARDS (please specify):						
Supervisor's			Print I	Name: Manta Warranta La	Date:	

**Mark Krumholz**