

# SENIOR LECTURER

DEPARTMENT/UNIT	School of Physics and Astronomy
FACULTY/DIVISION	Faculty of Science
CLASSIFICATION	Level C
DESIGNATED CAMPUS OR LOCATION	Clayton campus

## ORGANISATIONAL CONTEXT

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At [Monash](#), work feels different. There's a sense of belonging, from contributing to something groundbreaking – a place where great things happen. You know you're part of something special and purposeful because, like Monash, your ambitions drive you to make change.

We have a clear purpose to deliver ground-breaking intensive research; a world-class education; a global ecosystem of enterprise – and we activate these to address some of the [challenges](#) of the age, Climate Change, Thriving Communities and Geopolitical Security.

We welcome and value difference and [diversity](#). When you come to work, you can be yourself, be a change-maker and develop your career in exciting ways with curious, energetic, inspiring and committed people and teams driven to make an impact – just like you.

Together with our [commitment to academic freedom](#), you will have access to quality research facilities, infrastructure, world class teaching spaces, and international collaboration opportunities.

We champion an [inclusive workplace culture](#) for our staff regardless of ethnicity or cultural background. We have also worked to improve [gender equality](#) for more than 30 years. Join the pursuit of our purpose to build a better future for ourselves and our communities – [#Changelt](#) with us.

The five Schools of the **Faculty of Science** offer a large and diverse range of disciplines in undergraduate and postgraduate courses. Ten Schools from other university faculties contribute to science teaching at all levels, allowing students to choose their studies from physical, biological, biomedical, behavioural, environmental, mathematical and computer sciences. The Faculty of Science has a strong research reputation. The faculty's research spans the theoretical to the applied, contributes to new knowledge and technologies, and challenges how we interact with the world. To learn more about the Faculty of Science, please visit our website: [www.monash.edu/science/](http://www.monash.edu/science/).

The **School of Physics and Astronomy** is a School located within the Faculty of Science. It aims to position itself as one of the top physics and astronomy research and teaching departments in Australia. The School is committed to teaching and research of the highest quality in astronomy, astrophysics, experimental physics, and theoretical physics. We are strongly committed to improving the diversity of our staff and students, and promoting a culture of equality, fairness, respect and openness. In 2023, the School received a Silver Pleiades Award - Recognising Commitment to Advancing Women in Astronomy. This is an important first step in affirming women within the School, one that we can build upon. Please visit <https://www.monash.edu/science/schools/physics>

Monash and the Faculty of Science values staff diversity and champions inclusive practices. We are committed to equitable decision making and apply the principles of [achievement relative to opportunity](#) in our selection processes.

The **Monash Astrophysics group** within SPA has vibrant programmes of research in theoretical, computational, and observational astrophysics. Their research spans much of astrophysics, including: star formation from the first stars to the present, stellar evolution, nucleosynthesis and Galactic chemical evolution, the Sun and solar systems, galaxies, white dwarfs, neutron stars, black holes, neutrinos and gravitational waves, supernovae and gamma-ray bursts.

## POSITION PURPOSE

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A Level C academic is expected to make significant contributions to the teaching effort of a department, school, faculty or other organisational unit or an interdisciplinary area. An academic at this level is also expected to play a major role in scholarship, research and/or professional activities.

This Senior Lectureship is a teaching and research academic position with the [Monash Astrophysics group](#) of the School of Physics and Astronomy, and is part of a significant strategic investment and commitment to this discipline area. The position represents an exciting opportunity to advance and complement this growing and vibrant research area within the School.

The Senior Lecturer will build an outstanding research programme under the broad umbrella of astronomy and astrophysics, strategically aligned with the existing directions of the Monash Astrophysics group. They will develop an international research profile, and attract external funding from National Competitive Grants and other schemes.

The incumbent will contribute to the School's innovative, evidence-based pedagogy in the undergraduate astrophysics and/or physics curriculum and provide supervision to Honours and postgraduate research students.

**Reporting Line:** The position reports to the Head of School of Physics and Astronomy

**Supervisory Responsibilities:** Postdoctoral Researchers, Teaching Associates, Honours and Masters students, and Higher Degree by Research (PhD) students.

**Financial Delegation:** Not Applicable

**Budgetary Responsibilities:** The position will be responsible for managing the budgets of grants and scholarships relating to the Senior Lecturer's research programme.

## KEY RESPONSIBILITIES

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Specific duties required of a Level C academic may include:

1. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, and/or studio sessions
2. Initiation and development of course material

3. Course coordination
4. The preparation and delivery of lectures and seminars
5. Supervision of honours and postgraduate research projects
6. Supervision of the program of study of honours students and of postgraduate students engaged in course work
7. The conduct of research, and the establishment of an internationally-recognised, independent programme of research
8. Building the research programme through national competitive grant funding and/or other funding sources
9. Initiating, developing and leading research collaborations within and/or beyond Monash that enable novel, high-quality research outcomes
10. Communicating high-quality research outcomes through leading journals, seminars, conferences and other venues
11. Contributions to the strategic direction of the Monash Astrophysics group
12. A range of administrative functions
13. Attendance at departmental, school and/or faculty meetings and a major role in planning or committee work
14. Other duties as directed from time to time

## **KEY SELECTION CRITERIA**

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### **Education/Qualifications**

1. The appointee will have:
  - A doctoral qualification in the relevant or related discipline area.
  - At least four-years experience (post PhD) working in postdoctoral research and/or academia or equivalent experience.

### **Knowledge and Skills**

2. Evidence of having developed and led a significant, high-quality independent research programme within the broad area of astronomy and astrophysics (observational, computational, or theoretical)
3. Demonstrated publication record in high-quality refereed journals
4. Demonstrated capacity to attract national competitive and/or other grants to support and build a research programme
5. Demonstrated record of successfully supervising postgraduate research students
6. Ability to work positively and cooperatively with students, internal and external teams and external organisations
7. Demonstrated strong record of teaching experience in a tertiary environment including course coordination
8. Capacity to be an effective and innovative teacher in a tertiary environment
9. Experience in teaching undergraduate physics, such as developing a course programme, delivering lectures and/or small group teaching
10. Demonstrated ability to motivate, actively engage and educate a given audience

11. Possess a high level of interpersonal skills and demonstrated ability to work independently and as part of a team
12. Proven ability, commitment and passion for engaging in scholarly and research activities
13. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

## **OTHER JOB RELATED INFORMATION**

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- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- A current satisfactory Working With Children Check is required

## **GOVERNANCE**

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Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.