Casual Academic Staff Hiring Practices in MQ Department of Physics and Astronomy: Lab Demonstrators and Supervisors

The Department of Physics and Astronomy offers a range of undergraduate units to students completing programs in the Faculty of Science and Engineering, as well as service and elective units to students from across the campus. We employ casual academic staff to support our teaching of the laboratory-based components of these programs. Expressions of interest (EOIs) from appropriately qualified individuals are invited before the commencement of sessions 1 and 2 each year. Successful applicants may be appointed as demonstrators or supervisors.

Expressions of Interest
The EOI will be open for at least two weeks, opening for Session 1 in December of the year prior, and for Session 2 in June. The EOI will be published on the Department intranet and posted on the public MQ Job Opportunities page. An email will be sent to HDR students and recent casual academic staff of the Department when the EOI opens. The deadline for EOIs is non-negotiable and will not be re-opened for late applicants. Should there be a need to invite further EOIs after the deadline, all eligible applicants will be notified.

Selection Criteria
Successful applicants will meet the selection criteria as listed for each role. New applicants (those who have not previously performed sessional teaching in the Department) are required to provide a CV and will be invited to attend a short interview.

Allocation to classes
Typically, the number of submitted EOIs exceeds the number of open positions and allocating large numbers of casual academic staff is challenging. A range of considerations are used in allocating successful applicants to available timeslots, including but not limited to:

- the needs of the unit and the qualification/field of expertise of the successful applicant.
- casual academic staff availability for any given timeslot.
- previous experience of sessional teaching within the Department by the successful applicant.
- workload balance across the available casual academic staff.
- providing opportunity for casual academic staff to advance from new hire to experienced demonstrator, and where appropriate, onto supervisor.
- balancing skill levels and providing mentorship for new hires by pairing them with experienced demonstrators.

Supervisors will typically be allocated to more available classes than demonstrators; this is to facilitate the sharing of their expertise and mentorship to junior demonstrators and new hires.

Allocations will be made in the first instance based on ‘preferred’ timeslots as indicated by successful applicants in the EOI, and then based on all remaining availability.

Casual academic staff will be directly notified of their class allocations.

Induction and Familiarisation
- All appointed demonstrators and supervisors must attend an induction session held by the Department prior to the commencement of the session. Attendance is compulsory and casual academic staff will be paid for their time in attendance. The induction session will be scheduled 1-2 weeks before the beginning of the semester.
- Familiarisation with the experiments being demonstrated in lab sessions is essential. Demonstrators and supervisors are expected to familiarise themselves with any experiments that, 1) they do not have prior experience demonstrating within a relevant unit, or 2) have changed in any way since a staff member last worked with them. The format for familiarisation
is changing in 2021 and may involve scheduled sessions (TBC). Time taken for familiarisation will be paid.

• Additionally, there are some online modules relating to WHS and privacy that all Macquarie University staff must complete prior to the commencement of employment.

Duties
Regular duties and responsibilities for demonstrators and supervisors are as listed for each role. Supervisors are expected to perform additional duties to demonstrators, for which they receive additional pay.

Remuneration
Casual academic staff will be paid in accordance with the academic staff Enterprise Agreement and the marking schedule indicated below.

Professional Development
Employment as a casual academic staff member for lab demonstration activities in the Department of Physics and Astronomy provides an opportunity for professional development. New demonstrators will be mentored by experienced demonstrator supervisors, and by technical and academic staff.

Familiarisation sessions enable demonstrators to build their practical knowledge in the use of a range of equipment, devices and digital interfaces, and to enhance their application of theory in a real-world environment. Casual academic staff may also have the opportunity to build leadership and supervisory skills as their experience with demonstrating develops. Opportunities for formal feedback for interviews and informal feedback for the performance of duties also exist. Casual academic staff employed in the Department will be provided with a letter of reference upon request.

The hiring practices detailed here have been established in the Department of Physics and Astronomy in accordance with relevant Macquarie University policy and the Academic Enterprise Agreement. These practices aim to ensure an equitable, representative allocation of available casual academic staff is achieved within the Department each session, and to ensure that the learning outcomes of the units and the students are both fully supported. A gender diverse panel of at least two members of staff are involved in conducting each step of the process (review of EOIs, interviews, allocations). Outcomes are reviewed by the Learning and Teaching Director or the relevant Laboratory Director.

The Department of Physics and Astronomy is committed to ensuring genuine equality of opportunity for all people; this same commitment applies to the hiring of casual demonstrators, demonstrator supervisors and junior convenors (when applicable). Data about the relative gender mix of allocated casual academic staff will be published on the Department Equity and Diversity page after the commencement of each session.

Any questions or concerns about any of the above information or process can be directed to the Department Technical Manager for Physics and Astronomy – Bianca Sawyer, the Department Manager – Emma Hastings, or the Learning and Teaching Director – Prof Dave Spence.

The information provided above relates only to casual academic staff deployed in Department teaching labs. If you have questions or concerns about hiring practices or remuneration associated with any other casual academic staff employment within the Department (such as assignment marking or tutoring) these can be directed to the Department Manager – Emma Hastings.
Demonstrator Role

Selection Criteria
- Bachelor's degree majoring in Physics, Astronomy, or Astrophysics, or equivalent experience or qualifications.
- The ability to communicate clearly and effectively in English, both verbally and in writing.
- An understanding of physics concepts and theory as taught at MQ in first- and second-year undergraduate programs
- An understanding of the theory of uncertainties and its application in a lab context
- An understanding of equipment used at MQ in first- and second-year undergraduate physics programs, and the ability to manipulate it correctly and safely
- The ability to supportively instruct students who have limited or no physics background
- The ability to actively manage the safety of staff and students in a lab environment, including the identification of hazardous situations and their correction, and appropriate hazard and incident reporting.

Duties and Responsibilities
- Attend the demonstrator induction.
- Attend familiarisation sessions to become familiar with all experiments that are to be demonstrated during the session.
- Adhere to, and guide students to adhere to, COVIDSafe practices in the laboratory.
- Proactively guide students through their experiments, providing clear and concise instructions.
- Mark all students work (including both their in-class work and lab books) according to the supplied marking rubric, enter these marks into an online record, and return marked books within 2 business days of the lab session.
- Ensure teaching lab spaces are kept tidy and safe. This includes promptly addressing or reporting any safety issues.
- Provide feedback to the supervising demonstrator, lab management team, laboratory academic director or unit convenor, as appropriate and/or when prompted.
- Act professionally and in accordance with the Macquarie University code of conduct and Department of Physics and Astronomy Workplace Culture Statement

Remuneration
Demonstrators without a relevant PhD qualification will be paid at the ‘Other Academic Activity: Normal’ and ‘Non-Contemporaneous Assessment: Routine’ rates (MRK3 - Level A Step 2).
Demonstrators with a relevant PhD qualification will be paid at the ‘Other Academic Activity: Normal – PhD/UC’ and ‘Non-Contemporaneous: Routine – PhD/UC’ rates (MRK2 - Level A Step 6).

Demonstrators will be paid for
- Rostered regular hours.
- Marking of lab books (non-contemporaneous assessment).
- Demonstrator induction session.
- Familiarisation sessions (approx. 30-60mins per experiment).

Marking of lab books is generally completed outside of lab times, and you will not be paid for marking completed during paid lab sessions. Marking time will be paid in accordance with the following schedule:
- PHYS1010, PHYS1020, PHYS1510 and PHYS1520: 7 mins per lab book.
- PHYS1210: somewhere between 5 and 7 mins per lab book (TBC – subject to planned changes to marking procedures).

Relevant Documentation
- MQ Academic Staff Enterprise Agreement (2018) > website
- MQ Staff Code of Conduct > website
- Department of Physics and Astronomy Workplace Culture Statement > website
Supervisor Role

Selection Criteria
In addition to meeting the selection criteria for demonstrators:

- Previous experience demonstrating for the Department in teaching labs.
- Demonstrated *advanced* understanding of physics concepts and theory as taught at MQ in first- and second-year undergraduate programs.

Duties and Responsibilities
In addition to the duties and responsibilities listed for demonstrators:

- Attend the additional supervisor induction.
- Be present 5 minutes before the start of their rostered class for briefing by the lab manager and to assist with set set-up.
- Remain in the class for a further 5 minutes at the end of class to assist with allocating lab books and packing away/tidying equipment.
- Manage demonstrators in-session to ensure all tasks are completed correctly; including ensuring that all lab books are returned at the end of the class.
- Assist/mentor demonstrators, where appropriate during class and familiarisation sessions, to improve their skills as a demonstrator or their understanding of the equipment, experimental process, and underlying concepts.
- Arrange a replacement if a rostered demonstrator is unable to attend.
- Manage conflicts that may arise between students, or between students and demonstrators.
- Act professionally and in accordance with the Macquarie University code of conduct and Department of Physics and Astronomy Workplace Culture Statement.

Remuneration
Supervisors will be paid at the ‘Other Academic Activity: Normal – PhD/UC’ and ‘Non-Contemporaneous: Routine – PhD/UC’ rates (DEM1 - Level A Step 6).

In addition to the remuneration indicated for demonstrators, supervisors will be paid for:

- 10 minutes set-up/pack-down time per class.
- Up to 30 minutes administration time per class, per week, including the provision of a brief (5 minute) report on any issues arising during each session (supervisors will claim these hours according to time spent each week).
- A supervisor induction session (details to be confirmed).

Relevant Documentation
- MQ Academic Staff Enterprise Agreement (2018) > [website](#)
- MQ Staff Code of Conduct > [website](#)
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