



GRADUATE TEACHING AND RESEARCH SCHOLARSHIP IN PHYSICS

Oriel College intends to appoint a Graduate Teaching and Research (GTR) Scholar in Physics, commencing in October 2023, or as soon as possible thereafter. Preference will be given to candidates who are able to teach some courses from among the Quantum Mechanics (A3), Special Relativity and Symmetry (B2) and Subatomic Physics (B4) courses in the second and third year, and from among the physics topics covered in the first year of the course (CPI and CP2).

By October 2023, applicants will have completed at least one year of postgraduate study and will have embarked on a course leading to a DPhil in Physics at the University of Oxford. Applicants will normally be expected to have passed the Transfer of Status procedures before October 2023. Once appointed, the successful applicant will be expected to transfer their College membership to Oriel (with the permission of their current College). The successful candidate will also be required to take a course in tutorial teaching, if they have not already done so.

OVERVIEW OF THE COLLEGE

Oriel is a friendly and attractive College located right in the heart of Oxford. Founded in 1326 by King Edward II, it is one of the oldest Colleges in Oxford. The student body at Oriel is made up of undergraduates and postgraduates studying a wide variety of courses in a broad range of subjects. The students come from all kinds of schools, backgrounds and countries, and the College is committed to selecting the best applicants, based on academic achievement and potential, irrespective of educational background, gender or ethnicity. For further information about Oriel College see <http://www.oriel.ox.ac.uk>.

PHYSICS AT ORIEL

The person appointed will be one of four Tutors in Physics attached to Oriel, the other three being Prof Andrew Boothroyd, Prof Julien Devriendt, and Dr Andrew Wells.

Oriel admits seven undergraduates in Physics and Physics & Philosophy each year. Students follow either the three-year BA or the four-year MPhys course. Undergraduates studying Physics at Oxford are taught in two ways: through lectures and practicals (organized by the Department of Physics) and through college tutorials and classes (arranged by College Tutors). Our students are typically very able, committed, and well-motivated. Teaching them in very small groups (a tutorial typically involves a tutor and two or three students) allows one to respond directly to students' ideas, to tailor one's teaching to the different interests and enthusiasms of individual students, and to develop the links between the different elements of the Physics course. Tutors at Oxford give tutorials both in the areas of their own research and in other areas that they are interested in and knowledgeable about, but that are not necessarily the focus of their current research.

DUTIES OF THE SCHOLAR

To teach for the College for 3 to 4 contact hours per week and to pursue doctoral-level study in any area of Physics:

- a. To undertake teaching for 3 to 4 contact hours per week during term time to undergraduates at Oriel College. Teaching arrangements will be coordinated by the College tutors in Physics. Students should receive appropriate guidance for completing work in advance of tutorials and appropriate written feedback on written work submitted.

The precise teaching duties are flexible, and can to some extent be adapted to the successful candidate's areas of expertise and experience. Preference will be given to candidates who are able to teach some courses from among the Quantum Mechanics (A3), Special Relativity and Symmetry (B2) and Subatomic Physics (B4) courses in the second and third year, and from among the physics topics covered in the first year of the course (CPI and CP2).

- b. To set and mark Collections (beginning of term internal College exams) as required, and to write end of term Tutorial Reports on the TMS system.
- c. To play a part in the organisation of the subject within the College, and may be asked to take part in undergraduate admissions (normally Week 10 of Michaelmas Term). Admissions training will be provided
- d. To liaise with other College staff about addressing any pastoral problems which may arise amongst your students.

SELECTION CRITERIA

- Applicants will have completed at least one year of postgraduate study and will have embarked on a course leading to a DPhil in Physics at the University of Oxford.
- Applicants will be expected to have a strong ongoing research programme in Physics.
- Applicants will be expected to demonstrate interest and ability in undergraduate teaching, and in mentoring and guiding students in their studies.
- Teaching experience would be an advantage.
- Teaching interests from among the areas listed under Duties above

TERMS AND BENEFITS

The GTR Scholar will be paid for tutorial teaching and admissions at the hourly standard tuition rates as set by the Senior Tutors' Committee. The Scholar will be entitled to accommodation in College or an allowance of £2,600 per annum if living outside College. Please note that living in College accommodation is a benefit that may be subject to applicable deductions for tax according to HMRC rules in force from time to time, depending on the individual's tax position. The Scholar will also have access to a research allocation of £473 per annum. In addition, the postholder will be a member of both the Oriel Senior Common Room and the Middle Common Room and will

be entitled to free lunches and dinners up to a maximum of 24 per term in the Senior Common Room (lunch) or at High Table in the Hall (dinner), and 3 meals per week during vacation time in the SCR or Hall.

HOW TO APPLY

Applicants should submit their application **via email attachment** to the Appointment Committee, c/o Sheila Moore, Head of HR, Oriel College, OX1 4EW (academic.recruitment@oriel.ox.ac.uk), no later than **12pm on Friday 30th June 2023**.

Each application should include:

- A CV giving a brief summary of the candidate's career with details of their education and teaching experience
- A covering letter outlining their reasons for applying, their teaching experience, and their research interests
- Names and contact details of two referees (one on whom should be a current research supervisor). Candidates are asked to ensure that their referees are willing to provide references should the candidate be shortlisted.

It is anticipated that interviews will be held in the period of 10 to 18 July 2023.

RIGHT TO WORK IN THE UK: It is essential that all applicants currently have the right to work in the UK, enabling them to fulfil all aspects of the role without restriction.

Informal enquiries may be made to Prof Andrew Boothroyd (andrew.boothroyd@physics.ox.ac.uk), Prof Julien Devriendt (julien.devriendt@physics.ox.ac.uk), or Dr Andrew Wells (andrew.wells@physics.ox.ac.uk).