



Information for the role of the Arnell Fellow in Climate Repair

University Lectureship Grade 9 (bands 49-57) up to £52,559 per annum

Downing College welcomes applications for the Arnell Fellow in Climate Repair, to support and maintain research excellence at the [Centre for Climate Repair at Cambridge](#) by focussing on the physics and biogeochemistry of shelf seas.

You will be expected to contribute to the academic community at Downing College through a named Fellowship with its associated duties, including teaching of undergraduate students. You will also be associated with the University's Department of Geography, with the opportunity to contribute to undergraduate and postgraduate teaching, which will be separately remunerated. You will be responsible for selecting and supervising a candidate for a new fully funded (UK or international fee level) PhD studentship or potentially a post-doctoral role aligned to the Fellowship and relevant research area.

Downing College

Founded in 1800, [Downing College](#) in the University of Cambridge has a unique and magnificent setting among twenty acres of lawns and trees, located in the centre of Cambridge. Our open landscape has a superb collection of neo-classical buildings from the nineteenth, twentieth and twenty-first centuries. Those living and working in Downing enjoy a beautiful environment unique in Cambridge in its spaciousness.

The College is composed of approximately 50 Fellows and 165 non-academic staff, and our aim is to help all students to develop their academic ability and personal potential during their time here. We are a friendly and informal community for Fellows, staff, and students alike, with a thriving conference business, theatre and art gallery on site.

Centre for Climate Repair at Cambridge

The Centre for Climate Repair Cambridge (CCRC) is a multi-disciplinary centre headquartered in Downing College, where our Chair and founder Professor Sir David King was previously Master. The Centre forms part of [Cambridge Zero](#) and we support its research theme of Carbon Drawdown and Climate Repair. Our Director, Dr Shaun Fitzgerald OBE, and Deputy Director, Dr Hugh Hunt, are members of the Department of Engineering. Together with the team, they work with multiple departments and research groups at Cambridge, as well as collaborating with climate research teams in major universities around the world.

CCRC has three primary objectives:

- 1) Deep and rapid emissions reduction
- 2) Greenhouse gas removal
- 3) Research into targeted interventions to refreeze the polar regions.

The Department of Geography at the University of Cambridge

The [Department of Geography](#) has a long-established international reputation as one of the leading centres of innovative geographical thought and education and in 2019 celebrated one hundred years of teaching Geography in Cambridge.

We are a friendly and inclusive scholarly community with wide-ranging research interests spanning the natural and social sciences and the humanities. Incorporating the Scott Polar Research Institute, and based on two central Cambridge sites, at Downing Place and Lensfield Road, we have approximately 45 academic, 40 research and 45 support staff at any one time. We deliver a Tripos (undergraduate degree) with an intake of approximately 100 students per year and has a vibrant postgraduate community of approximately 150 students studying at PhD level and on Master's courses.

Our research is aided by well-supported laboratories, field equipment and high-performance computing services, supporting a combination of fieldwork, laboratory analysis and experiments, remote sensing and computational modelling.

The University of Cambridge

The [University of Cambridge](#) is one of the world's oldest and most successful universities, consistently ranked amongst the top universities in the world. It is a renowned centre for research, education, and scholarship that makes a significant contribution to society. The University comprises 150 faculties and departments, together with a central administration and other institutions. Its affiliates have won more Nobel Prizes than any other University. Its sustained pursuit of academic excellence is built on a long history of first-class teaching and research within a distinctive collegiate system. For eight centuries our ideas and innovations have shaped the world.

The Colleges and the University remain committed to admitting the best students regardless of their background and to investing considerable resources both in widening access and financial support. The 31 Colleges are self-governing, separate legal entities which appoint their own staff. Many academic staff are invited to join a College as a Teaching Fellow, which provides a further social and intellectual dimension. The Colleges admit students, provide student accommodation and deliver small group teaching. The University awards degrees and its faculties and departments provide lectures and seminars for students and determine the syllabi for teaching and conducting research.

The University has an annual income of £2 billion. Research income, won competitively from the UK Research Councils, the European Union (EU), major charities and industry, exceeds £500 million per annum and continues to grow. Its principal goal is to remain one of the world's leading universities in an increasingly competitive global higher education sector.



JOB DESCRIPTION

JOB TITLE: Arnell Fellow in Climate Repair

Role Purpose

We are seeking an outstanding candidate to support and maintain world class research excellence at the [Centre for Climate Repair at Cambridge](#) (CCRC), specifically to lead a collaborative research effort to investigate the physics and biogeochemistry of shelf seas.

In many regions, the marine coastal ecosystem has been devastated by anthropogenic forces including pollution and overfishing. Restoring these environments to a healthy and sustainable state and realizing the potential of these waters to sequester anthropogenic carbon requires a holistic understanding of the physical and biogeochemical systems. You will lead an interdisciplinary research team and should demonstrate an ability to connect with ongoing research at the University of Cambridge. Research methods could include *in situ* and remote observations and modeling.

You will be expected to contribute to the academic community at Downing College through a named Fellowship with its associated duties, including teaching of undergraduate students. You will be associated with the University's Department of Geography in the School of Physical Sciences, with the opportunity to contribute to undergraduate and postgraduate teaching there which will be remunerated separately. You will be responsible for selecting and supervising a candidate for a new fully funded (UK or international fee level) PhD studentship or potentially a Post-doctoral role aligned to the Fellowship and relevant research area.

Candidate Requirements

You should demonstrate:

- a track record of internationally recognized outstanding research
- experience in attracting research grant support;
- the vision, leadership experience and enthusiasm to develop the Centre into a leading research presence;
- the ability to effectively contribute to College and faculty teaching excellence;
- the ability to manage and interact effectively with staff and students at all levels, and a demonstrable commitment to promoting a positive and inclusive institutional culture;
- an enthusiastic commitment to the recruitment, training and mentoring of the next generation of researchers, including undergraduates, postgraduate students, and postdoctoral research fellows;
- a minimum of a PhD or equivalent postgraduate qualification.

Responsibilities

1. Centre for Climate Repair at Cambridge duties:
 - i. investigating new areas of research within specialist subject area;
 - ii. identifying research topics;
 - iii. determining appropriate research methodologies for research;
 - iv. adapting research methodologies;
 - v. applying appropriate research methodologies for research and analysing results/conclusions to formulate new concepts and ideas;
 - vi. writing reports to relevant bodies about progress of research.
 - vii. writing papers on topic relevant to specialist subject area. This will include journals, books, and other material.
 - viii. attending or organising conferences in a relevant research area to liaise and network with national/international colleagues;
 - ix. you will be asked to provide regular informal updates on activities to key donors and to contribute to an annual Donor Report.

2. Downing College duties:
 - i. supervising students for a minimum of 80 hours each year (typically 4 hours plus per week during term-time). These supervisions will include Downing College students and students from other Colleges in exchange for teaching for Downing students. You will additionally be expected to undertake all necessary preparation for teaching, marking, reports on supervisions given, and personal references for students taught;
 - i. acting as Director of Studies (for additional remuneration) if requested;
 - ii. participating in College undergraduate admission processes (including outreach events);
 - iii. participating in the governance of the college, through engagement with Governing Body and other committees of the College;
 - iv. participating in, and fostering, student-related academic College societies as appropriate;
 - v. liaising with the College Development Director and team on potential donors and occasionally participate in donor meetings and alumni events.

3. Department of Geography duties:
 - i. collaborating with the postgraduate office at the Department of Geography, to select and supervise the PhD candidate aligned to the Fellowship;
 - ii. contributing to undergraduate and postgraduate teaching at the Department of Geography, which will be separately remunerated;
 - iii. participating in Geography department activities where possible and relevant to the Centre for Climate Repair Cambridge or College;
 - iv. you may, on occasion, participate in department/school/University committees where appropriate and/or where invited;
 - v. mentoring and guiding the work and research of postgraduate students and the next generation of researchers.

In addition, you may be asked to undertake additional duties as appropriate and at the request of the Director of the CCRC, Senior Tutor at Downing College and the Head of the Department of Geography.

Role Terms and Conditions

We welcome applications from suitably experienced candidates and from a diverse range of backgrounds. The successful applicant must provide satisfactory evidence of eligibility to work in the UK.

The Fellowship is a full-time role offered for five years in the first instance, subject to successful completion of a probationary period of six months. There is an option to extend the contract for a further five years, subject to successful performance. You will be expected to undertake up to four hours of small group teaching per week in term time (remunerated separately) and to become a member of the Governing Body of the College, participating in the governance and communal life of Downing College.

You will be entitled to all the rights and privileges of a Fellow, including seven meals a week in College, either lunch or dinner, at College expense. Accommodation within College, which would be subject to availability, is chargeable at a market rate. Other Fellowship benefits include an academic expenses allowance of £550 per annum and a Fund administered by five senior Fellows to which application can be made for further help with academic and conference expenses.

Hours of work are typically 7.25 per day with an unpaid 30-minute lunch break and agile working can be considered. The role is offered at the equivalent of University Lectureship Grade 9 (points 49-57) with a salary of up to £52,559 per annum for 37.5 hours per week. The successful applicant is also eligible to receive the College's benefit package, including membership of USS if eligible.

In addition to the salary, the College offers an attractive benefits package including:

- 33 days holiday per annum including bank holiday entitlement, pro rata for part-time positions;
- subsidised lunches in the College Dining Hall on working days (only for positions of 6 hours or more);
- contributory group personal pension scheme;
- cash reimbursement scheme for day-to-day medical costs;
- subsidised private medical and dental schemes;
- annual season ticket loan;
- cycle purchase scheme;
- employee discount shopping scheme;
- use of the College gym for a small annual membership fee.

A full list of benefits is available from the College's Human Resources office. Please note that these benefits are non-contractual and may be amended or withdrawn at our discretion.

Application Process

To apply for this position please visit: https://app.casc.cam.ac.uk/fas_live/arnellclimatererepair.aspx.

All applicants will be contacted once shortlisting has taken place.

Closing date: Monday 6 September

Interview date: Wednesday 22 September

Start date: As soon as possible subject to notice period

Please note that the closing date for this post may be extended if there are insufficient applicants or brought forward if there is a high volume of applicants. The successful applicant will be asked to complete an enhanced level DBS check.

For further information please contact:

For application enquiries: Mrs Karen Basser, Tutorial and Admissions Administrator at fellowship-recruitment@dow.cam.ac.uk.

The Centre for Climate Repair at Cambridge: Dr Shaun D Fitzgerald, Director at sdf10@cam.ac.uk.

Downing College: Dr Guy Williams, Senior Tutor at senior-tutor@dow.cam.ac.uk.