

Job title	Quantum and Advanced Materials Technologies for a Sustainable Society Strategic Research Initiative Coordinator, Communications Officer, and Business Developer
Grade	9
Salary range	£45,585-£57,696
Staff Group	Unestablished Academic-related
Department / Institution	Engineering

## Role-specific information

### Role Summary

The Quantum and Advanced Materials technologies for a Sustainable Society (QAMSS) Strategic Research Initiative (SRI) brings together Cambridge minds to synthesize a coherent vision to facilitate collaboration across disciplines, improve Cambridge visibility, and coordinate large strategic grants. QAMSS facilitates collaborations via working group members representing complementary activities. Examples include: Interdisciplinary Research Centres (Cambridge Centre for Data Driven-Discovery, Energy, Neurosciences, Synthetic Biology); Strategic Research Initiatives (Global Challenges, Trust in Technology); Strategic Research Networks (Digital Humanities); and Cross-School Initiatives (Cambridge Digital Humanities, Cambridge Zero, Centre for Digital Built Britain). These are distinctive in supporting a sustainable society.

The QAMSS-SRI Coordinator and Business Developer reports to, and supports, the SRI Co-Chairs (Professors Atature, Ferrari and Ducati, based at the Departments of Physics, Engineering and Materials Science and Metallurgy) and the QAMSS Steering Committee to develop the ongoing strategy for the initiative and manages the SRI team to implement and deliver the required activities. The role-holder actively grows and manages relations with key internal and external stakeholders to ensure that the mutually agreed aims are met. A key element of the role is to communicate business needs and market drivers from industry. This includes business development and communications work for the Cambridge Graphene Centre (CGC), for the Graphene Flagship, the Layered Materials Research Foundry, and other projects accounting for 50% of the time.

Based within the Cambridge Graphene Centre in West Cambridge, the role-holder will be expected to spend part of their time in the different departments and centres supporting the SRI initiative and organize inclusive activities and meetings using their local facilities. The SRI Chairs and Steering Committee members will ensure office and meeting spaces are available for the SRI Coordinator and Business Developer to use.

The role-holder will have duties and responsibilities which include the following:

- To establish a University of Cambridge community website for exchange and information on QAMSS, organize the QAMSS workshops, map UK, EU and International grant opportunities, and assist proposal and report writing.
- To work closely and collaboratively with the Co-Chairs and Steering Committee members on the development of all SRI activities and help manage the SRI team in developing and delivering them.
- To develop and manage relationships with relevant teams across the University, particularly the Strategic Partnerships Office, the Research Operations Office and relevant SRI infrastructure.

- To develop and manage relationships with current and future SRI industry partners.
- To design and deliver workshops and presentations to SRI stakeholders.
- To grow and manage relations with other industry and external partners, working to develop and deliver shared objectives, in conjunction with the University Strategic Partnerships Office.
- To take responsibility of monitoring the SRI budgets, reporting to the SRI Co-Chairs and Steering Committee on relevant financial issues.
- To ensure compliance with relevant funders and University finance regulations and reporting requirements.
- To broker meetings with academics, companies, funding agencies, government bodies and other organisations nationally and internationally representing the interests of the University and the SRI initiative.

The role is part-funded (50%) by the Cambridge Graphene Centre (CGC) at the Department of Engineering to perform business development and communications work for the CGC, for the Graphene Flagship, the Layered Materials Research Foundry, the 2D Materials of Tomorrow CDT, and other projects..

The QAMSS SRI and CGC actively promote policies to address historic under-representation of women and minority groups in its workforce. The departments of Physics and Engineering are proud to hold Athena-SWAN Gold and Silver Awards, respectively, for our work on equality, diversity and inclusion (ED&I).

## Key Responsibilities

<b>Main duties and responsibilities</b>	
<b>1</b>	Establish a University of Cambridge community website for exchange and information Quantum and Advanced Materials Technologies for a Sustainable Society, design and develop the QAMSS workshops, map UK, EU and International grant opportunities, and assist proposal and report writing.
<b>2</b>	Leads the commercialization of valuable research and new technologies arising in the broad areas of optoelectronics and photonics, including quantum technology, flexible and wearable electronics and support projects requiring business development
<b>3</b>	Determines the market potential: analyzes, interprets and assesses data to produce reports to academics, investors, SRI-Chairs and Steering Committee, project stakeholders.
<b>4</b>	Gathers and disseminates information ranging from fundamental quantum science and technology to market potential to and from inventors, external advisors, collaborators and other stakeholders as appropriate to ensure effective communication on commercialization activities. Designs and develops presentations to all stakeholders and partners.
<b>5</b>	Designs and develops demonstrator prototypes in collaboration with researchers. Identifies suitable routes to market and potential commercial partners; Initiates contacts with potential commercial partners and displays demonstrators in tradeshows, conferences and media.
<b>6</b>	Manages the marketing and promotion of technology transfer within the University and externally; educates staff and students on intellectual property and commercialization. Updates SRI, CGC, CDT, NMS, LMRF and other CGC projects web pages, including activities related to technology transfer, innovation and interaction with industry. Prepares impact assessment cases. Assists in writing proposals for funding from industry and any other relevant bodies. Writes reports for grants and projects. Purchases equipment and consumables.
<b>7</b>	Develops skills and maintains an awareness of scientific, technical, commercial and legal developments impacting on the function of QAMSS science and technology by reading specialized journal articles, reports, web pages and whatever else needed; attends internal and external meetings/seminars/conferences/ training courses; shares best practice with others internally and externally. organizes conferences, seminars, exhibitions targeting innovation and technology transfer

8	Establishes and maintains a business development pipeline fostering links with QAMSS and CGC industry contacts reporting on a regular basis about its status, actions, and relevant activities from the first contact to the definition and approval of relevant collaboration agreements or projects.
9	Contributes to long-term aims and direction of the CGC's research activity and strategy.
10	Writes or contributes to publications or disseminate research findings using appropriate media. Assess, interpret and evaluate outcomes of research. Represent the CGC at appropriate events, communicate complex research ideas to people who are non-specialists as well as peers

## Person Profile

This section details the knowledge, skills and experience we require for the role.

<b>Education &amp; qualifications</b>	<ul style="list-style-type: none"> <li>Degree level qualification in a scientific or technical subject relevant to the role's remit, at PhD Level or equivalent.</li> </ul>
<b>Specialist knowledge &amp; skills</b>	<ul style="list-style-type: none"> <li>Significant experience in dealing with new product and/or process development for industries is required, as well as previous exposure to company dynamics and the capability to bridge the gap between research and business goals.</li> <li>Experience in a commercial environment, preferably in a technical sales or marketing role</li> <li>Experience in new business development and setting Business to Business (B2B) or academic-industry collaborations</li> <li>Knowledge of the patenting process, licensing or other aspects of technology transfer</li> <li>Strong and demonstrable use of computer programs such as Microsoft Office, as well as CAD and other necessary design software.</li> <li>Ability to produce content for and update webpages, as well as other media, such as Twitter, Facebook, etc.</li> <li>Flexibility, accuracy and attention to details</li> </ul>
<b>Interpersonal &amp; communication skills</b>	<ul style="list-style-type: none"> <li>Good interpersonal and communication skills with ability to relate well to, and engage with individuals at all levels</li> <li>Proven ability to understand, communicate and present information</li> </ul>
<b>Relevant experience</b>	<ul style="list-style-type: none"> <li>Experience of working in a research-led environment, evidenced by a PhD or equivalent experience</li> <li>Experience in product development and prototyping</li> <li>Demonstrated interest in technology transfer, marketing of technologies, contract negotiation and/or intellectual property</li> <li>Knowledge of IP management criteria and experience in negotiation</li> <li>Good organization and time management with ability to multi task and meet tight deadlines</li> <li>Experience in handing collaborations within UK and EU projects, including reporting and attendance to project meetings</li> <li>Experience of managing own workload and working in close collaboration with industry, on strict deadlines requiring frequent and stringent reporting</li> </ul>
<b>Additional Requirements</b>	<ul style="list-style-type: none"> <li>The role may require national and international travel.</li> </ul>

## Terms and Conditions

<b>Location</b>	Cambridge Graphene Centre, 9 JJ Thomson Avenue, Cambridge CB3 0FA
<b>Working pattern</b>	Full-time, Monday-Friday
<b>Hours of work</b>	There are no formal conditions relating to hours and times of work but you are expected to work such hours and days as are reasonably necessary for the proper performance of your duties. Your times of work should be agreed between you and your head of institution.
<b>Length of appointment</b>	Until 31 March 2025 in the first instance as an appointment to this post relies on the availability of finite funds for a specific purpose that are not part of the University's general revenues. The Head of Department, or his nominee, will keep the role-holder informed of the funding situation.
<b>Probation period</b>	9 months
<b>Annual leave</b>	Full-time employees are entitled to annual paid leave of 41 days inclusive of public holidays
<b>Pension eligibility</b>	Universities Superannuation Scheme (USS) You will automatically be enrolled to become a member of USS (Universities Superannuation Scheme). Pension scheme details, including information about the legal requirement for the University to automatically enrol its eligible jobholders into a qualifying workplace pension scheme from 1 March 2013, is available at: <a href="http://www.pensions.admin.cam.ac.uk/">http://www.pensions.admin.cam.ac.uk/..</a>
<b>Retirement age</b>	The University does not operate a retirement age for unestablished academic-related staff

## Screening Check Requirements

### Right to work in the UK

We have a legal responsibility to ensure that you have the right to work in the UK before you can start working for us. If you do not have the right to work in the UK already, any offer of employment we make to you will be conditional upon you gaining it. If you need further information, you may find the Right to Work page within the 'Applying for a job' section of the University's Job Opportunities pages helpful (please see <http://www.jobs.cam.ac.uk/right/have/>).

### Health declaration

Once an offer of employment has been made the successful candidate will be required to complete a work health declaration form.

### Qualifications

The person specification for this position lists qualifications that are essential and/or desirable. Please note that if you are offered the post you will be asked to provide your relevant original certificates of these qualifications.

### References

Offers of appointment will be subject to the receipt of satisfactory references.

## Application Process

To submit an application for this vacancy, please click on the link in the 'Apply online' section of the advert published on the University's Job Opportunities pages. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

Please ensure that you upload your Curriculum Vitae (CV) and a covering letter in the Upload section of the online application.

The closing date for applications is Sunday 27 October 2024. If you have any questions about this vacancy or the application process, please contact the HR Office at the Department of Engineering ([hr-office@eng.cam.ac.uk](mailto:hr-office@eng.cam.ac.uk), +44 (0)1223 332615).

## General Information

The University of Cambridge is one of the world's oldest and most successful universities. We are a renowned centre for research, education, and scholarship that makes a significant contribution to society. The University is consistently ranked amongst the top universities in the world. Our affiliates have won more Nobel Prizes than any other University.

Our 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. Our principal goal is to remain one of the world's leading universities in an increasingly competitive global higher education sector. Today the University of Cambridge is at the centre of a cluster of over 4,300 businesses employing 58,000 people.

Our capital investment projects include the West Cambridge site, the North West Cambridge development and the growth of the Biomedical Campus in the south of the city. The North West Cambridge development includes the opening of a primary school – the first in the UK to be managed by a University. So we are deeply embedded in, and committed to serving, our local community. These are all conspicuous signs of a University that is not only adapting to new needs, but also anticipating the future.

Our mission is to contribute to society through the pursuit of education, learning, and research at the highest international levels of excellence. Our core values are:

- freedom of thought and expression; and
- freedom from discrimination.

## About Us

The University is one of the world's leading academic centres. It comprises 150 faculties and departments, together with a central administration and other institutions. Our institutions, museums and collections are a world-class resource for researchers, students and members of the public representing one of the country's highest concentrations of internationally important collections. 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.

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 HR7 Further Information, Version 9, 31/10/14

University awards degrees and its faculties and departments provide lectures and seminars for students and determine the syllabi for teaching and conducting research.

Our instinct for seeking out excellence and setting up enduring and mutually beneficial collaborations has led us to establish strategic partnerships across the globe. Whether it is the successful Cambridge-Africa Programme involving universities in Ghana, Uganda and elsewhere on the African continent; or the close association with the government of India to pursue new research in crop science; or the creation, with Germany’s Max Planck Institutes, of a Cambridge-based centre for the study of ethics, human economy and social change – international partnerships are now an inextricable part of the University’s make-up.

There is much more information about the University at <http://www.cam.ac.uk/univ/works/index.html>.

## Department of Engineering

The Department of Engineering is the largest department in the University of Cambridge, representing approximately 10% of the University's activities by the majority of common metrics, and is one of Europe's largest integrated engineering departments. It achieves the highest standards in both research and teaching. Its international reputation attracts the best students, academics, sponsors and partners from around the world. The Department is accommodated on two sites; one in central Cambridge and four satellite buildings in West Cambridge.

The Department seeks to benefit society by creating world-leading engineering knowledge that fosters sustainability, prosperity and resilience. We share this knowledge and transfer it to industry through publication, teaching, collaboration, licensing and entrepreneurship. By integrating engineering disciplines in one department, we can address major challenges and develop complete solutions, serving as an international hub for engineering excellence.

The Department is committed to promoting gender equality as part of a landscape of encouraging diversity, tolerance and a culture of mutual support. The dedicated Diversity Committee oversees equality, diversity and inclusion related activities in the Department, and holds regular events to promote Engineering to under-represented groups. The Department was first granted an Athena SWAN Silver Award in 2017, which was renewed in September 2020 to recognise the Department’s ongoing commitment to advancing the careers of women in STEMM. The Department of Engineering continues to make excellent progress towards achieving gender balance amongst its staff and students. More information on the Athena SWAN Charter can be found [here](#).

The Department has six Academic Divisions and two Services Divisions as follows:

Academic Divisions	Division A – Acoustics, Energy, Fluid Mechanics and Turbomachinery
	Division B – Electrical Engineering
	Division C - Mechanics, Materials and Design
	Division D – Civil, Structural and Environmental Engineering with Sustainable Development
	Division E – Manufacturing and Management
	Division F – Information Engineering
Services Divisions	Division V – HR Office, Research Office, Graduate Studies Office, Teaching Office (including Faculty Board and Exams), Finance Office, Library, Building and Estate Services, Information and Computing Services
	Division W – Design and Technical Services

The size and two site location means it is especially important to have an effective organisational structure in place. All staff are assigned to the appropriate Academic or Support Service Division on appointment so that the line of management responsibility is clear and this role is part of Division B. More information on the Department can be found at [www.eng.cam.ac.uk](http://www.eng.cam.ac.uk).

## Cambridge Graphene Centre

The mission of the Cambridge Graphene Centre ([www.graphene.cam.ac.uk](http://www.graphene.cam.ac.uk)) is to investigate the science and technology of graphene and related materials. This engineering innovation centre allows our partners to meet, and effectively establish joint industrial-academic activities to promote innovative and adventurous research with an emphasis on applications.

The facilities and equipment have been selected to promote alignment with industry, by filling two main vacuums. The first is the lack of intermediate scale printing and processing systems where the industrial upscale and optimization of inks based on graphene and related materials can be tested and optimized. The second vacuum stems from the challenge posed by the unique properties of graphene: the centre facilities aim to fully cover those properties necessary to achieve the goal of "graphene-augmented" smart integrated devices on flexible/transparent substrates, with the necessary energy storage capability to work autonomously and wireless connected.

The CGC also hosts the EPSRC Centre for Doctoral Training (CDT) in 2D Materials of Tomorrow, in collaboration with the University of Manchester, the Layered Materials Research Foundry (LMRF) in collaboration with the University of Southampton, and the Quantum and Advanced Materials technologies for a Sustainable Society (QAMSS) Strategic Research Initiative (SRI). The CDT works closely with industry to ensure that successful students are properly equipped to follow careers in both industry and academia

The Cambridge Graphene Centre is based on the West Cambridge Site and headed by Professor Andrea Ferrari. It provides a central focus for graphene and related materials research in Cambridge.

## Working at the University

Working at Cambridge you will join a diverse, talented and innovative community, with more than 18,000 students and over 16,000 staff from all walks of life and corners of the world. The University continually explores strategies to attract and retain the best people. It is committed to supporting its staff to achieve their best. We are a fair, diverse and inclusive society and we believe our staff are our greatest asset. There is strong commitment to developing institutional leadership and supporting and encouraging staff development at all levels.

We offer a variety of roles including academic, research, professional, managerial and support roles. We also offer extensive benefits and excellent learning opportunities within a stimulating working environment. The University's estate is undergoing the most significant transformation in its history. Cambridge has been able to create a new science and technology campus to the west of the city centre, and is now expanding further to the north west of Cambridge including investing in affordable homes for University key workers and community facilities. Even with our continued development, the University remains within walking or cycling distance across the campus. The University is a major partner on the Cambridge Biomedical Campus and we continue to redevelop our historic city centre sites demonstrating our determination to ensure that we can offer the best facilities and opportunities for our staff and students.

## Equality and Diversity

The University has built its excellence on the diversity of its staff and student community. We aim to be a leader in fostering equality and inclusion, and in promoting respect and a sense of belonging for all. We encourage applications from all sections of society. All appointments are made on the basis of merit. We have an Equal Opportunities Policy, along with a range of diversity networks for women, black and minority ethnic and lesbian, gay, bisexual and transgender staff. More details are available here: <http://www.equality.admin.cam.ac.uk/>

progression and success of minority ethnic staff and students within higher education. Furthermore, the University's Athena SWAN award recognises and celebrates good practice in recruiting, retaining and promoting women.

## Living in Cambridge

From beautiful University and College buildings, museums and art galleries, quaint gardens and punts on the River Cam, to a vibrant restaurant and café scene, our employees are surrounded by the wonderful features of this unique city.

You can find a wide-range of high street shops and 3 shopping centres, with independent alternatives at the historic market and nestled within the passageways in the city centre. You will find a cinema, bowling alley, a nightclub and various live performances at the Cambridge Leisure Park, with further entertainment options at the Corn Exchange, Arts Theatre and the ADC Theatre. Further information can be found on the [Visit Cambridge](#) website.

If you prefer the faster pace of life, London is a 45 minute train journey away. For those travelling from overseas, Stansted Airport is just 45 minutes away and Heathrow Airport under 2 hours away. The University is a short distance from a host of other attractions such as Ely Cathedral, Newmarket Races and various wildlife parks and stately homes. Cambridge is also within easy reach of the beautiful Broads and coastlines of Norfolk and Suffolk.

## Relocation Support

The University recognises the importance of helping individuals to move and settle into a new area. We provide support and guidance to those relocating internationally or domestically to take up a post at the University of Cambridge, liaising with other University offices and selected partners to ensure comprehensive relocation support is available. This includes: accommodation, childcare, schools, banking, immigration and transport. If you would like further information, please visit <https://www.accommodation.cam.ac.uk/>.

The Shared Equity Scheme and the Reimbursement of Relocation Expenses Scheme provide financial assistance to qualifying new members of staff with the costs of relocating to Cambridge.

## Accommodation Service

The University Accommodation Service helps staff, students and visiting scholars who are affiliated to the University in their search for suitable accommodation in Cambridge. The dedicated accommodation team can provide access to a wide range of University-owned furnished and unfurnished properties, and has a database of private sector accommodation available for short and long-term lets. For further information and to register with this free service please visit <https://www.accommodation.cam.ac.uk/>

## What Cambridge can offer

We offer a comprehensive reward package to attract, motivate and retain high performing staff at all levels and in all areas of work. The University offers a wide range of competitive benefits, from family leave entitlement, to shopping and travel discount schemes. Our generous annual leave package contributes to the positive wellbeing of our University employees. Sabbatical leave enables academics to focus on research and scholarship, whilst still maintaining their full salary. The University also has a [career break scheme for academic and academic-related staff](#), with additional flexible working policies for all other staff.

## Pay and benefits

The University salary structure includes automatic service-related pay progression in many of its grades and an annual cost of living increase. In addition to this, employees are rewarded for outstanding contribution through a number of regular pay progression schemes. The University offers attractive pensions schemes for employees, with an additional benefit of a salary exchange arrangement providing tax and national insurance savings. Payroll giving is also a simple, tax-efficient way for employees to make monthly donations to charity.

## CAMBens employee benefits



We offer a CAMbens scheme for University employees, providing access to online and in-store shopping discounts and cashback. With more than 2,000 participating retailers, employees can save money on a wide range of household expenses, from groceries and clothes, to holidays and insurance and much more. A range of local discounts are also available, helping employees to save money whilst also supporting local Cambridge businesses and a CAMbens Cycle to Work salary sacrifice scheme is also available, which enables employees to save money on transport costs. A 10% discount rate on the [purchase of train season tickets, bulk buy tickets](#) and an interest free travel to work loan are also available for staff of the University.

### **Family-friendly policies**

The University recognises the importance of supporting its staff. We have a range of family-friendly policies to aid employees' work-life balance including a generous maternity, adoption and shared parental leave entitlement of 18 weeks' full pay and emergency family care support via Emergency Childcare (<https://www.emergencychildcare.co.uk/>) as well as back-up care for adult dependants which can be booked directly by staff through [www.helpinghandshomecare.co.uk](http://www.helpinghandshomecare.co.uk). Other family-friendly support includes: Our highly regarded workplace nurseries, a childcare salary exchange scheme and a high-quality holiday Playscheme may be available to help support University employees with caring responsibilities (subject to demand and qualifying criteria). Further childcare information can be found here: <https://www.childcare.admin.cam.ac.uk/>

The [Newcomers and Visiting Scholars Group](#) is an organisation within the University run by volunteers whose aim is to help newly arrived wives, husbands, partners and families of Visiting Scholars and members of the University to settle in Cambridge and give them an opportunity to meet local people. The Office of Postdoctoral Affairs supports the postdoctoral community within Cambridge. Further details are available here: <https://www.opda.cam.ac.uk/>

### **Your wellbeing**

The University's Sport Centre, Counselling Services and Occupational Health are just some of the support services available to University employees to promote their physical and mental wellbeing. There are many societies in Cambridge catering for almost every taste and interest. Whether you want to take part in a sport, participate in music or drama, pursue a hobby, or join a political group, you will almost certainly find that a society exists for this purpose. The University also hosts the [Cambridge Science Festival](#) and [Cambridge Festival of Ideas](#), as well as [Open Cambridge](#) weekend, which together attract over 50,000 visitors per year. The festivals are a great opportunity to get your first taste of public engagement, through volunteering, supporting hands-on activities or proposing a talk.

### **Development opportunities**

We support new employees to settle in through various activities. The encouragement of career development for all staff is one of the University's values and we put this into practice through various services and initiatives. Our Personal and Professional Development Department provides development opportunities and courses for all University employees. These include face-to-face sessions, online learning modules and webinars. Employees may also apply for financial support to undertake training that will lead to a qualification. We offer reduced staff fees for University of Cambridge graduate courses and the opportunity to attend lectures and seminars held by University departments and institutions. The CareerStart@Cam programme also supports employees in assistant staff roles who do not hold higher education qualifications to develop their skills, experience and qualifications.

### **Information if you have a Disability**

The University welcomes applications from individuals with disabilities. We are committed to ensuring fair treatment throughout the recruitment process. We will make adjustments to enable applicants to compete to the best of their ability wherever it is reasonable to do so and, if successful, to assist them during their employment. Information for disabled applicants is available at: <http://www.admin.cam.ac.uk/offices/hr/staff/disabled/>

If you prefer to discuss any special arrangements connected with a disability, please contact the HR Office, who are responsible for recruitment to this position, on 01223 332615 or by email on [hr-office@eng.cam.ac.uk](mailto:hr-office@eng.cam.ac.uk). Alternatively, you may contact the HR Business Manager responsible for the department you are applying to via [hrenquiries@admin.cam.ac.uk](mailto:hrenquiries@admin.cam.ac.uk).