
Academic Role Profile

Duties and Responsibilities of Director of Surrey Space Centre

The term of office is normally five years, but the length of appointment is at the discretion of the Executive Dean. This term may be extended by the Executive Dean for a further period subject to performance (assessed via appraisal) and mutual agreement. Heads of Centres are accountable to the Executive Dean for their individual performance and that of their Centre. Heads of Centres have the following responsibilities:

Academic Leadership

1. Taking overall responsibility for developing and delivering the Faculty academic and strategic plan as it relates to their Centre.
2. Motivating academic staff to achieve the highest standards in research, teaching and professional conduct.
3. Generating new ideas, and encouraging all other staff to contribute to new thinking and its implementation.
4. Ensuring the Centre has a high profile with appropriate Research funders, professional and governmental bodies, alumni and donors and industrial and commercial organisations, to the benefit of the Centre, the Faculty and the University more widely.
5. Ensuring students at all levels receive an outstanding experience and are fully engaged in their dealings with the Centre.
6. Taking responsibility for the organisational structure of the School and implementing changes in it as appropriate.

Operational Management

7. Managing devolved budgets in accordance with University financial regulations according to a plan agreed with the Executive Dean in such a way as to ensure the financial health of the Centre and the Faculty.
8. Supporting and implementing the University Health & Safety Policy and local implementations relevant to the Centre.
9. Supporting and implementing the University Equality, Diversity and Inclusion policy and leadership, and all University HR policies.
10. Ensuring the Centre has effective plans in place for business continuity in the event of disruption to buildings, processes, systems or people.

Leadership and Management of staff

11. Taking responsibility for the selection, mentoring, training, career development and levels of motivation and engagement of staff in the Centre.
12. Managing the appraisal and performance of staff, by the setting of objectives, regular review of performance and, where necessary, intervention and support in all aspects of academic and professional work.

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13. Allocating workload (including teaching, research, external activities and academic administration) to academic staff fairly, equitably and transparently through a model agreed with the Executive Dean and consistent with the University academic workload allocation model.
14. Ensuring the Centre has processes in place for two way communication for both Institutional/Faculty matters to staff and for matters from staff to Senior University Management.
15. Ensuring staff within the Centre work in accordance with our institutional values.

Teaching and learning

16. Attracting and retaining the best students in the necessary numbers to ensure the Centre has a vibrant and sustainable teaching base.
17. Supporting the University's objectives in key areas of widening participation and employability.
18. Ensuring the Centre maximises its performance in the metrics of the Teaching Excellence Framework and the National Student Survey.
19. Ensuring, with the Associate Dean (Education) and Directors of Education, that the Centre's contribution to the teaching portfolio is developed, maintained and refreshed according to the Faculty's academic development strategy.
20. Ensuring that the delivery of teaching by the Centre meets University standards of quality, and appropriate external requirements, such as subject benchmarks and professional accreditation.
21. Ensuring that assessment processes for which the Centre is responsible are conducted effectively and in accordance with University regulations.
22. Ensuring that the academic progress and pastoral care of students of the Centre is effectively monitored and any issues speedily resolved in accordance with University procedures.
23. Ensuring that feedback from students is received and acted upon.

Research and Innovation

24. Ensuring, with the Associate Dean (Research and Innovation) and Associate Dean (Doctoral College) that the Centre has a progressive research strategy integrated with the Institution and Faculty's research strategy, and a research culture and infrastructure that attracts, develops and retains our academics, researchers and post-graduate students.
25. Ensuring all members of academic staff deliver research outputs of the quality and impact necessary to achieve the research goals of the institution.
26. Ensuring all members of academic staff seek to secure funding to support active and effective research.

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27. Ensuring staff in the Centre are seen as valued partners and collaborators with business, industry, and communities both locally and, where appropriate, globally for the benefit of society.

28. Ensuring staff in the Centre develop productive collaborations with leading universities nationally and internationally to conduct research projects of global scale and significance.

Engagement

29. Ensuring, with the Associate Dean (International) that the Centre's activities are appropriately articulated with the Faculty's international strategy.

30. Supporting local and regional engagement initiatives.

31. Maintaining and developing links with Centre al alumni.

Planning

32. With the Executive Dean and Faculty management team, developing and delivering the strategic and financial and staffing plans

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Job Title:	Professor
Responsible to:	Head of Centre/Executive Dean of Faculty (whilst Head of Centre)
Responsible for:	Research staff employed on programmes and awards directed by the post holder. May have supervisory responsibility for other staff.

Job Summary and Purpose

To develop and lead a significant programme of research in line with the Faculty's research strategy, attracting and securing significant research funds.
To provide academic leadership in undergraduate and postgraduate courses within area of expertise.

Main Responsibilities/Activities

To develop the research activities of the Faculty and the University by:

Leading a significant programme of research, sustaining an extensive track record of published research findings in appropriate, peer reviewed research journals and/or monographs to maintain and enhance expert reputation in own subject area.

Planning, co-ordinating and leading a significant programme of research in accordance with a specific project plan through a research team or a group of staff involved in research. Managing the financial and physical resources associated with the research activities. Supervising and guiding the work of staff and research and doctoral students on own specialist area.

Leading innovative research proposals and submitting funding bids, winning support for them and planning the research to be taken, as a self-contained item or as part of a broader programme. Obtaining and sustaining research, consultancy and other additional funding

Seeking collaborative research opportunities with other members of Faculty staff and develop multidisciplinary research links with other parts of the University where appropriate.

Developing research activities which extend current thinking in the subject area, thereby enhancing the reputation of the Faculty and the University.

Maintaining an expert reputation in own subject area and providing appropriate guidance to staff and students

Engaging in external activities in accordance with the Faculty's research strategy at a national and international level. Such activities will include membership of committees of academic and professional bodies, external examining, editing journals and contribution to professional networks, national and international meetings, societies and bodies (including governmental ones).

Engaging in external activities in accordance with the Faculty's research strategy at a national and international level. Such activities will include contribution to professional networks, national and international meetings, societies and bodies (including governmental ones).

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Attending appropriate national and international conferences for the purpose of disseminating research results.

Leading major funding bids which develop and sustain research support for the specialist area and advance the reputation of the Faculty and the University.

Sustaining and developing professional expertise and maintaining the requirements for registration with the appropriate body (*for academics with clinical links only*).

Contributing to the wider national and international academic community general life and work of the University through, for example, editing journals and refereeing papers.

To develop the teaching activities of the Faculty by:

Providing academic leadership at undergraduate and/or postgraduate level, as appropriate, by leading the development of new teaching methods and designing programme units and taking responsibility for the quality of programme units.

Taking an active role in teaching at undergraduate and postgraduate level; planning, delivering and critically reviewing a range of teaching and assessment activities including lectures.

Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to own area of subject specialism, and providing appropriate feedback to students.

Taking part in activities such as validating and examining in relation to the University's associated institutions.

To engage in scholarship by:

Continually updating knowledge and understanding in the field or specialism. Extending, transforming and applying knowledge acquired from scholarship to teaching, research and appropriate external activities.

To undertake pastoral care of students by:

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and provide support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support. Taking responsibility for the initial resolution of all student issues within and outwith standard procedures, and ensuring that an appropriate framework is developed and used for pastoral care issues.

To contribute to the efficient management and administration of the Faculty, the University and the wider academic community by:

Performing personal administrative duties throughout the Faculty and the University as are recognised by the University as properly within the remit of role of professor, such as research group leader and roles associate with teaching programmes, as allocated by the Head and contributing to the general life and work of the University.

Advising, supervising and giving guidance to other staff. Taking overall responsibility for the welfare of staff drawing on specialist advice and support.

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Person Specification

The post holder must have:

A higher professional qualification, normally a doctoral degree or equivalent

Outstanding qualities and achievements in scholarship and research at a national and international level which have made a significant contribution to the advancement of their subject

Significant academic publication record

Evidence of leadership in research, including postgraduate research supervision

Teaching programmes, and/or internationally recognised textbooks.

Evidence of securing a significant amount of sustained research funding

Proven management and leadership qualities at a senior level

Proven administrative ability at a senior level

Evidence of contributions to conferences, professional meetings and societies at an international level and evidence of achievements in other external activities at an international level.

Evidence of high quality teaching at undergraduate and postgraduate level

Relationships and Contacts

Professors are expected to accept invitations to serve on national and international bodies, including governmental bodies. They will also be expected to contribute to the University by taking on roles that enable the University to meet its administrative needs.

To attract research funding, a Professor will be expected to liaise with existing and potential sponsors.

Teaching and administrative duties will be allocated by the Head of Faculty, within the context of the teaching programmes agreed by the Faculty Learning and Teaching Committee

Special Requirements

The post holder is expected to work outside normal office hours as necessary.

All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
 - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand

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- Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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Job Title:	Reader
Responsible to:	Head of Centre/Executive Dean of Faculty (whilst Head of Centre)
Responsible for:	Research and support staff employed on projects for which the post holder is Principal Investigator, and students on programmes and awards that are the responsibility of the post holder.

Job Summary and Purpose

To make a significant contribution to the advancement of own specialist area which is recognised at national and international level. To undertake research in line with the Faculty's research strategy and to contribute to undergraduate and postgraduate teaching programmes.

Main Responsibilities/Activities

To develop the research activities of the Faculty and the University (in collaboration with others in the discipline where appropriate) by:

Demonstrating leadership in research, including postgraduate research supervision.

Planning, co-ordinating and leading research activities in accordance with a specific project plan through a research team or a group of staff involved in research. Managing the financial and physical resources associated with the research activities. Supervising and guiding the work of staff and research and doctoral students on own specialist area.

Leading innovative research proposals and submitting funding bids, winning support for them and planning the research to be taken, self-contained item or as part of a broader programme. Obtaining and sustaining research funding.

Sustaining an extensive track record of published research findings in high quality journals, or other media and at internationally recognised conferences.

Maintaining an expert reputation in own subject area and providing advice and guidance to staff and students.

Engaging in external academic activities in accordance with the Faculty's research strategy at a national level and international level. Such activities will include membership of committees of academic and professional bodies, external examining, editing journals and contribution to professional networks, national and international meetings, societies and bodies (including governmental bodies).

Sustaining and developing professional expertise and maintaining the requirements for registration with the appropriate body (*for academics with clinical links only*).

To support the teaching activities of the Faculty by:

Leading/developing teaching methods, designing undergraduate and postgraduate programmes, pursuing new teaching approaches.

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Teaching, training and supervising students (including research students), tutor industrial/professional training year students and external examining according to own area of subject specialism.

Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to own area of subject specialism.

Taking part in activities such as validating and examining in relation to the University's associated institutions.

To engage in scholarship by:

Continually updating knowledge and understanding in the field or specialism. Extending, transforming and applying knowledge acquired from scholarship to teaching, research and appropriate external activities.

To undertake pastoral care of students by:

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and provide support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support. Taking responsibility for dealing with referred issues for students within own educational programmes, and providing first line support for colleagues, referring them to sources of further help if required.

To contribute to the efficient management and administration of the Faculty, the University and the wider academic community by:

Performing personal administrative duties such as research group leader and roles associated with teaching programmes, as allocated by the Head of Faculty and contributing to the general life and work of the University.

Person Specification

It is essential that the post holder possesses a higher professional qualification, normally a doctoral degree

Demonstrated outstanding qualities and achievements in scholarship and research at a national and international level

Significant academic publication recorded in refereed journals

Evidence of leadership in research, including postgraduate research supervision

Evidence of a record of sustained research funding

Evidence contributions to conferences, professional meetings and societies at an international level and evidence of achievements in other external activities at an international level

Evidence of high quality teaching at undergraduate and postgraduate level

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Relationships and Contacts

The post holder will take a leading role in the setting of strategic objectives for their research theme. New appointees will be assigned a senior colleague to guide their development and aid their integration into the Faculty and into the University. Teaching and administrative duties will be allocated by the Head of Faculty, and will include roles related to both taught programmes and research activities across the Faculty.

Special Requirements

To attend national and international conferences for the purpose of disseminating research results. To be able to participate in residential field work, in the UK or overseas, according to own area of subject specialism.

To lead major funding bids, which develop and sustain research support for the specialist area and advance the reputation of the Faculty and University.

The post holder is expected to work outside normal office hours as necessary.

All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
 - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
 - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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Addendum

This document provides additional information relating to both specific aspects of the post/Faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

Job Title:

Professor/Reader and Director of Surrey Space Centre

Job Summary/Purpose

The postholder will:

Lead and manage the Centre, developing a strategic plan designed to deliver excellence in both research & innovation and learning & teaching, in line with University strategy.

Boost Surrey's in-space presence via new payloads and/or missions to support the Centre's research and education.

Represent the Centre in a range of high-profile contexts, internationally, nationally, and across the University of Surrey

Develop and lead a significant research portfolio

Sustain an outstanding track record of publication of high quality research findings in primary journals and international conferences

Maintain an excellent level of research funding, leading and coordinating large multi-disciplinary or multi-Faculty bids involving collaborative groups

Engage with and influence space agencies, industry and similar institutions at the highest levels, to enhance the reputation of the Centre, maintain and develop key partnerships, and secure funding for future projects

Build and enhance relationships with space and aerospace industry and agency partners such as SSTL, Airbus, UK Space Agency, European Space Agency, NASA and JAXA.

Manage resource planning associated with the Centre and research projects, including recruiting and supporting staff and postgraduate students

Mentor junior colleagues to develop their research potential and support their career development

Provide academic leadership at undergraduate and postgraduate level, taking an active role in planning and delivering teaching and assessment activities, fulfilling the roles of supervisor and personal tutor, and delivering pastoral care and support

Perform administrative duties throughout the Centre/Department/Faculty/University, contributing to the general life and work of the University

Background Information/Relationships

Faculty:

The Faculty of Engineering and Physical Sciences (FEPS) is one of three faculties at Surrey, and covers the core engineering disciplines of aeronautical engineering, civil engineering, chemical engineering, electrical and electronic engineering and mechanical engineering, alongside the specific disciplines of chemistry, computer science, mathematics and physics.

The Faculty embraces a vibrant education network whereby teaching and learning developments across all areas are shared, explored and advanced. Its electrical and

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electronic engineering courses are ranked number six and chemistry courses are ranked in the top ten in the Guardian University Guide 2021, while its materials technology courses are ranked number three in the Complete University Guide 2021.

Staff within the Faculty are well respected throughout academia and industry, where links are strong, and drive the belief that a university should contribute to the mainstay sciences while enhancing the technology to improve overall quality of life. Through consistent investment stemming from a deep commitment to develop world-class, sustainable research programmes, the Faculty has built up an impressive infrastructure to support all its activities. The interdisciplinary nature of much of the work also provides opportunities to cross boundaries and offers students the prospect of accessing exceptional facilities.

School of Computer Science and Electronic Engineering (CSEE) comprising the Departments of Computer Science and Electrical and Electronic Engineering:

The School of Computer Science and Electronic Engineering draws on the synergies between the two subjects to deliver outstanding teaching and world-leading research in fields such as computer vision and machine learning, AI, audio-visual machine perception, autonomous vehicles, 5G technologies, blockchain, virtual reality, gaming and smart health. The School encompasses the Department of Electrical and Electronic Engineering and the Department of Computer Science.

The Department of Electrical and Electronic Engineering has been ranked one of the best in the UK for many years. Research is carried out in several large research centres and groups with cross cutting themes including the Advanced Technology Institute (ATI), the Centre for Vision, Speech and Signal Processing (CVSSP), the Institute for Communication Systems (ICS), and the Surrey Space Centre (SSC). The ATI brings together researchers with an international outlook in Quantum Information, Nanotechnology, Energy and Advanced Materials; CVSSP is an internationally recognised leader in audio-visual machine perception, machine learning and AI research. ICS is the home of the 5G Innovation Centre, is the largest academic research centre in the UK specialising in information and communication technology and satellite communications. The Surrey Space Centre (SSC) is one of the World's leading Centres of Excellence in space engineering, and has pioneered the development of low-cost satellites. The Department provides excellent opportunities for students and researchers alike to access a wide range of facilities devoted to robotics, artificial intelligence, machine learning, audio-visual processing, security, energy conversion, space missions, healthcare and nanomaterials, amongst others. All members of academic staff have both teaching and research responsibilities.

The Department of Computer Science has a proud reputation of offering a friendly and supportive environment for students with courses designed to provide the skills necessary to become an IT professional, whether as a software engineer, project manager, consultant or in support. Underpinning this is highly regarded research in cybersecurity, artificial intelligence and nature-inspired computer engineering, allied to excellent professional training opportunities for students to work in industry. In 2019, the University invested in new facilities including a 200-seater computer science laboratory.

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School of Mechanical Engineering Sciences (MES):

The School of Mechanical Engineering Sciences (MES) currently has around 35 FTE academic staff and about 750 students who are studying on a range of programmes from BEng/MEng through MSc to EngD/PhD. We offer four strong professionally accredited undergraduate programmes in Mechanical Engineering, Biomedical Engineering, Aerospace Engineering and Automotive Engineering. All of the programmes have the option of a year of Professional Training. The programmes are supported by a range of well-equipped laboratories and computer suites, including a new Engineering Design Centre, incorporating our very successful Formula Student activity. The Department, and its degree programmes, are rated in the top 10 in the UK league tables.

Research is highly rated and is carried out in four Centres: Aerodynamics & Environmental Flow (A&EF), Automotive Engineering, Biomedical Engineering and Engineering Materials.

Aerodynamics and Environment Flow is the largest of the four research Centres in MES, addressing challenges in aeronautical, environmental and industrial aerodynamics, including turbulent flows, turbo-machinery, wind energy, novel propulsion, advanced flow sensors and design optimisation. The group includes the Rolls-Royce supported Thermo-Fluid Systems University Technology Centre, which specialises in advanced computer modelling of turbomachinery for aeroengine and power generation, and the Environmental Flow (EnFlo) laboratory, which is part of the NERC National Centre for Atmospheric Science. Other research activities include aero-thermal aspects for electric propulsion systems, development of advanced flow sensors, and multi-disciplinary design optimisation. Research is funded by EPSRC, NERC, InnovateUK, Rolls Royce, Airbus and other public- and private-sector sources.

The members of the Centre for Automotive Engineering work on hybrid vehicles, vehicle dynamics and control and terrestrial mobile and space robotics. The group has extensive and active research links in the form of major research grants and contracts with vehicle manufacturers such as Jaguar Land Rover, Skoda, Fiat, McLaren Automotive, Williams and Gordon Murray Design and original equipment manufacturers such as Lucas Varity and Oerlikon Graziano.

The Centre for Biomedical Engineering has an active interest in human movement. The group's prior focus was on gait, focussing on lower limb amputees and individuals with cerebral palsy or recovering from a stroke. As a result of this work, the group has acquired an 8-camera Qualysis motion capture system and force-plate equipped laboratory that forms the core of the human movement studies. The second main theme of the group is microelectronics and signal processing, with work on dielectrophoresis, which has resulted in a spin-out company, DEPtech, and the processing of signals from, for example, electroencephalograms for the diagnosis of Alzheimer's disease.

Materials is one of the University's multi-disciplinary research themes and as such the Centre for Engineering Materials in MES contributes to the wider University research agenda. The group has particular strengths in interfacial studies (from fundamental adhesion studies through the joining of dissimilar materials to the modelling of complex joint configurations) and composite materials (with a particular interest in developing nanocomposite materials for supercapacitors and incorporating sensors to produce smart structures). There is a growing interest in bespoke functional and structural materials produced via additive manufacturing. These activities incorporate extensive

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advanced characterisation of both microstructures and properties; for example, the group hosts the MicroStructural Studies Unit (with scanning, transmission and scanning transmission electron microscopy and associated spectroscopies), the Surface Analysis Laboratory (with atomic force microscopy, X-ray photoelectron spectroscopy, time-of-flight secondary ion mass spectroscopy and Auger electron spectroscopy) and the Mechanical Testing Laboratory (with a suite of instruments enabling the quasi-static and fatigue loading of a range of sample sizes and configurations). The group also has joint activities with the Surrey Space Centre and is keen to develop these collaborations further.

Surrey Space Centre:

Surrey Space Centre (SSC) has been a pioneering centre of excellence in space engineering for over 40 years. Created in 1979, SSC soon established its world leadership in microsatellite missions and underpinning technologies, forming the highly successful spin-out company Surrey Satellite Technology Ltd (SSTL). Since then, the Centre's core strategy has been to lead the development of the space industry through its advanced engineering research programmes.

Researchers in SSC have expertise in many varied aspects of satellite design, control and robotics, and have developed a world-wide reputation for developing innovative solutions in life-cycle satellite engineering that have been adopted by the space industry.

The Centre has a track record of successful and award-winning research projects and space missions, including pioneering microsatellites with the launch of UoSAT-1 in 1981, followed by UoSAT-2 (UoSAT-OSCAR-11) in 1984, through to the UK's first CubeSat in orbit (STRAND-1) in 2013, and the recent RemoveDEBRIS project, the first mission to successfully demonstrate a range of space debris removal technologies. The RemoveDEBRIS project won the 2019 Sir Arthur C Clarke Award for Space Achievement – Industry/Project Team and the Aviation Week Network 63rd Annual Laureate Award 2020, SPACE - Technology & Innovation

Major recent funding awards include the Surrey-led EPSRC Future AI and Robotics for Space (FAIR-SPACE) National Hub, launched in 2017 with an £8M research grant from UKRI and the UK Space Agency, matched by a £7.5M industrial fund and a projected £15M business development fund. It brings together leading experts from academia, industry and government, and aims at pushing the boundary of AI robotics for future space utilisation and exploration. The Hub is advancing knowledge and technologies in orbital manipulation, extra-terrestrial vehicles, and robotic support for astronaut missions. SSC has recently been awarded £2M to develop a tool that will provide the UK Met Office with global maps of radiation levels in the atmosphere during solar storms; this project is part of the Space Weather Instrumentation, Measurement, Modelling and Risk (SWIMMR) programme funded by the Natural Environment Research Council (NERC).

Facilities on campus include a unique control room with full capability to command and control the satellites to execute mission operations and download data for user's applications. The Daedalus propulsion test facility consists of a vacuum chamber under near space conditions allowing for qualification and lifetime tests for electric propulsion devices. We also have a physical air-bearing testbed facility offering multiple degrees of freedom for orbital dynamics simulation. The SSC also runs the Realistic Electron

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Environment Facility (REEF) for spacecraft charging and component survivability research.

The Mechanical Testing Facility (MTF) is a comprehensive experimental facility for investigating the mechanical properties of infrastructure materials and structural components at multi-scales, which supports key research into inflatable and deployable structures for space applications. There are also extensive robotics facilities, such as the Surrey Autonomous Vehicle testbed and the Surface Robotics Testbed Facility, which includes the Surrey autoNOMous software And Rover hardware Testbed (SMART), which is reconfigurable and customisable in terms of the Rover chassis options and has an adjustable gravity effect. We are able to simulate Martian and lunar (icy and non-icy) regolith for lab-based testing and experiments, including subsurface drilling and sampling. Commercial robotic platforms for algorithmic validation and software testing, including Pioneer 3AT, Seekur Jr, Pepper and MIRO are also available.

Our researchers are keen to engage with diverse communities and the public, for example through schools visits, “Pint of Science” outreach events, the “Innovate Guildford Festival” (space robotics demonstrations featured in 2019), and the Royal Society Summer Exhibitions (e.g., Cleaning Up Space Junk, 2016). In addition to its research activities, the Centre leads successful taught programmes to train the next generation of space engineers, including for undergraduates (BEng/MEng in Electronic Engineering with Space Systems) and postgraduates (MSc in Space Engineering), as well as a thriving PhD programme.

Relationships:

The appointee will report to the Dean of Faculty, working closely with the Head of School of Computer Science and Engineering, Head of Department of Electrical and Electronic Engineering, and Head of School of Mechanical Engineering Sciences. S/he will establish working relationships with staff (including other academics, researchers, technicians and support staff) and students in the Centre in addition to staff in the wider Faculty and university, as appropriate. S/he will liaise with sponsors and external bodies informally and formally, as necessary.

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Person Specification	
This section describes the knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this specific role in the Surrey Space Centre	
	Essential/ Desirable
Higher research degree (PhD) or equivalent research experience	E
Track record of academic or industry research leadership in Space Engineering, either multidisciplinary or with particular strength in a space engineering subject such as: space instruments/payloads, Remote Sensing & Applications, platform system engineering, astrodynamics, space vehicle dynamics and control, space and planetary environment, spacecraft structures & mechanisms, propulsion, spacecraft autonomy and robotics, spacecraft avionics.	E
Outstanding research and publication track record at a national and international level, or evidence of outstanding industry research achievement, which have made a significant contribution to advancing knowledge.	E
Strong track record of leading successful research proposals, securing research income and supervising PhD students	E
Capability to deliver Space missions and manage the associate media coverage.	E
Familiarity with development, delivery and assessment of teaching programme units	E
Experience of working with partners in industry, academia and other professional bodies, and a strong international network of collaborators	E
A track record in line management, ideally at research group or department level	E
Excellent interpersonal, communication, motivational and team working skills, commensurate with leading an academic Centre	E