

Research Role Profile

<b>Job Title:</b>	Research Fellow - CoSTAR National Lab
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<b>Responsible to:</b>	Head of research group, or principal investigator
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<b>Responsible for:</b>	Not applicable
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<b>Job Summary and Purpose:</b>
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

<b>Main Responsibilities/Activities</b>
<p>To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.</p> <p>Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results of personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research.</p> <p>Continually to update knowledge and develop skills, and translate knowledge of advances in the area into research activity.</p> <p>To plan and manage own research activity in collaboration with others. To carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control.</p> <p>To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder's area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate.</p> <p>The post holder may occasionally be required to supervise more junior research staff.</p>

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**Person Specification**

**The post holder must have:**

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

**Relationships and Contacts**

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

**Special Requirements**

To be available to participate in fieldwork as required by the specified research project

**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.

**ADDENDUM****Organisational/Departmental Information & Key Relationships****Background Information**

This post is part of an AHRC project, Convergent screen technologies and performance in realtime (CoSTAR). **The post will operate within the CoSTAR National Lab** led by Royal Holloway University of London with Pinewood Studios, BT, University of Surrey, Abertay University, Disguise, National Film and Television School and Surrey County Council.

The **CoSTAR National Lab will enable** small and medium businesses (SMEs) and wider industry to do what they could not do alone by:

- Building, commissioning, testing and demonstrating the facilities of the CoSTAR National Lab in Applied Research, enabling early stage research to experimental prototyping.
- Placing applied research side-by-side with live commercial productions, with a network of industry leaders offering routes to commercialisation and markets beyond most SME networks.
- Providing unique access to world-leading creative businesses and talent to stimulate feedback between creative technology research and development (R&D) and commercial and creative exploitation.
- Fusing R&D with production expertise and industry via the UK's National Film and Television School, the world's leading film school, coupled with research-in-action PhD programmes.

The National Lab will also deliver a Knowledge Exchange and Commercialisation Function and a Pilots, Demonstrators and Trials programme on behalf of the CoSTAR network.

The National Lab will include dedicated stage and studio space, featuring advanced creative computing technologies, a large-scale virtual production system, a 5G-6G private network, a motion capture rig, and a state-of-the-art creative artificial intelligence (AI) compute facility accessible across the UK. Its networked facilities will provide access to the nationwide CoSTAR infrastructure.

Find out more about the [CoSTAR programme](#).

**Centre for Vision Speech and Signal Processing (CVSSP) at the University of Surrey**

The Centre for Vision, Speech and Signal Processing (CVSSP), part of the Department of Electronic and Electrical Engineering at the University of Surrey, is an International Centre of Excellence for research in Audio-Visual AI and Machine Perception, with 180

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researchers, a grant portfolio of £30M (£21M EPSRC) from EPSRC, EU, InnovateUK, charity and industry, and a turnover of £7M/annum. The Centre is internationally unique in bringing together expertise in both audio and visual machine perception, with the central goal of creating machines that can see and hear to understand the world around them.

The Centre has state-of-the-art multi-camera UltraHD visual and spatial audio capture and analysis facilities supporting research in real-time audio-visual processing and visualisation. CVSSP has an AI compute facility with 240GPUs for deep learning and >1PB of high-speed secure storage. National standing is evidenced by sustained EPSRC investment, including two Programme Grants (2013-19, 2015-21), Prosperity Partnership(2021-25), Digital Economy Centre DECaDE (2020-25), three Platform Grants in Audio-Visual Research (2003-08, 2008-14, 2017-22), and as a lead partner of the BBC Data Science and Audio Research partnerships. The centre has an outstanding track record of pioneering research leading to successful technology transfer with UK industry and spin-out companies. CVSSP also leads the AI@Surrey interdisciplinary network of over 300 research in AI and machine learning across the University of Surrey.

### **Project partners**

Royal Holloway University of London, Pinewood Studios, BT, Abertay University, Disguise, National Film and Television School, Surrey County Council