



Job Description

Job Title:	Senior Technician (Cameras and Tracking)
Department:	CoSTAR National Lab
Job type:	Professional Services
Grade:	7
Accountable to:	Technical Operations Manager/Studio Manager
Accountable for:	n/a
Purpose of the Post	
<p>This role is responsible for the setup, calibration and operation of camera, tracking and capture systems within the studio, supporting a wide range of production and R&D activity, including virtual production workflows. The postholder will configure and operate cameras and tracking systems and ensure that they are integrated effectively with real-time and stage-based systems.</p> <p>This is a hands-on technical role requiring strong attention to detail, problem-solving ability and the confidence to work within complex, multi-system environments.</p>	
Key Tasks	
Camera and Tracking Systems	
<ul style="list-style-type: none"> • Set up, configure and operate camera systems for studio-based production and R&D activity • Calibrate and maintain camera tracking systems, ensuring accurate alignment between physical and virtual environments • Support lens calibration, camera metadata workflows and system alignment • Monitor and maintain tracking accuracy during testing and live productions 	
Virtual Production Integration	
<ul style="list-style-type: none"> • Work with the studio team to integrate camera and tracking systems with real-time environments and the LED volume • Support workflows integrating camera systems with real-time engines • Ensure correct synchronisation between camera, tracking and rendering systems • Assist in troubleshooting issues related to drift, latency or misalignment 	
Maintenance and Troubleshooting	
<ul style="list-style-type: none"> • Carry out routine maintenance and system checks across camera, tracking and general production equipment • Diagnose and resolve technical faults, including connectivity, calibration and signal issues 	

- Maintain accurate documentation of system configurations and setups
- Ensure equipment is stored, maintained and handled appropriately
- Assist with load-ins, load-outs and reconfiguration of equipment between projects

Compliance and Improvement

- Operate in accordance with studio health and safety procedures
- Ensure safe setup and operation of camera rigs and associated equipment
- Contribute to a safe and well-managed working environment
- Contribute to the development of workflows and best practice for camera and tracking systems
- Document issues, solutions and technical learnings

Other Duties

While members of the team may have individual specialisms, everyone will be expected to work collaboratively, supporting different roles as required by each production

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the University. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

Our Values

Advancing equity and inclusion is central to our identity as a University of Social Purpose, guided by our values of being Respectful, Innovative, Open, and Daring. We strive to build a fair and inclusive environment for all colleagues and students, where we challenge ourselves and others with integrity, and approach difference with understanding and kindness. Every member of our community is expected to treat others with dignity, work collaboratively across a wide range of backgrounds and perspectives, and contribute to a place where everyone can participate fully and feel valued.

Person Specification

Details on the qualifications, experience, skills, knowledge and abilities that are needed to fulfil this role are set out below.

Job Title: Senior Technician (Cameras and Tracking)

Department: Story Futures

Criteria	Essential	Desirable
Knowledge, Education, Qualifications and Training		
Educated to degree level or equivalent experience.	X	
Strong knowledge of a variety of the cameras and camera systems used in film, television and virtual production.	X	
Strong technical knowledge of camera tracking, motion capture systems and integration with virtual production workflows.	X	
Practical knowledge of synchronisation methods, timecode systems and multi-system environments (e.g. genlock, SMPTE standards).		X
Skills and Abilities		
Demonstrable experience of operating cameras and camera systems in a studio, broadcast, live events or production environment.	X	
Understanding of synchronisation, timecode and system alignment.	X	
Solid understanding of camera workflows, including calibration and alignment.	X	
Ability to troubleshoot technical issues related to camera, tracking or signal flow.	X	
Strong attention to detail and ability to maintain accuracy under pressure.	X	
Good organisational skills and ability to manage equipment and configurations effectively.	X	
Familiarity with real-time production tools such as Unreal Engine.		X
Experience		
Working in virtual production environments or LED stages.	X	
Setting up and operating camera tracking systems or related technologies.	X	
Working within multi-system technical environments.	X	
Working collaboratively within a technical team.	X	

Experience of supporting workflows that integrate camera systems with real-time engines.	X	
Experience of carrying out technical maintenance and system checks across camera, tracking and general studio equipment.	X	
Understanding of motion capture or performance capture systems.		X
Working with external clients, creatives or researchers.		X
Other Requirements		
Occasional evening and/or weekend work to support operational requirements.	X	
Committed to professional development to keep pace with emerging technologies and evolving virtual production workflows.	X	
The role involves load-ins, derigs and studio reconfiguration, including manual handling of technical equipment (typically 15–25 kg), using safe techniques and team assistance where required.	X	