



Grade :	Principal Engineer
Term :	Permanent
Role :	Principal Optical Systems Engineer
Salary :	£40-£50k dependent on experience
Description :	<p>Craft Prospect is looking to expand its team. We are looking for a passionate engineer with hands-on delivery experience of space or equivalent optical projects either from a systems or optical discipline perspective. The individual will play a key role in a future upcoming joint European Space Agency mission combining onboard intelligence and decision making using AI, hyperspectral imaging, and quantum optical communications. The role will sit within the now establishing Office of Chief Engineer at the company, and look across business cells as well as undertaking critical technical diligence and direction work for the mission and in related fields. We are therefore looking for an individual with the capability and relevant experience to lead and direct highly technical work.</p> <p><i>The company seeks to develop a diverse and inclusive team, and encourages applications from all backgrounds. In recognition that different groups may respond to job specifications differently and that our talent pool can come from all quarters, we seek to minimise the number of prerequisites in any role and rather recruit for attitude, and ability to positively contribute to our small but growing team and our work. If you have any requirements for accessibility in applying for this role please let us know.</i></p>
Prerequisites :	<p>Demonstrated capability or relevant experience necessary to lead teams in the delivery of optical systems in space or equivalent field</p> <p>Understanding of (space) systems engineering approaches and of optical communication and/or imaging principles</p>
Responsibilities :	<p>Cross-company support for space optical systems: imaging and telecommunications</p> <p>Directing, and at times hands-on engineering and troubleshooting across optical domain from concept through delivery</p> <p>Commissioning and specification of complete optical systems, and support for acceptance testing and integration</p> <p>Via the Chief Engineer Office, reporting to board on technical feasibility and progress, flagging and prioritising risks and issues</p>

Internal technical diligence and design authority functions, supporting the same across partners and stakeholders

Delivery of concise technical information to a range of stakeholders including wider team, technical audiences, space agency experts, and customers

Supporting business cell leads with optical subject matter expertise for space environment relevant to quantum technology, mission systems architecture and integration, edge compute and onboard intelligence

Design and development of optical subsystems payloads such as optical blocks and telescopes, working with our partners in industry and research institutions

Ensuring adaptation of optical systems for survivability and operation in the space environment

Preferred :

Hands-on experience of space optics challenges

Experience in working in a laser safe environment

Experience testing optical systems for space environment

Understanding of optical backend electronic systems

Understanding of quantum optics

Knowledge of secure telecommunications and networks

Knowledge of CubeSat systems and design for space

Able to work in UK, from Apr/May 2023

Line Manager :

Jason Quibell

About us :

Craft Prospect is a young engineer-led company in its sixth year having consistently doubled turnover and headcount, picking up a number of awards and recognitions along the way as well as £1.4Mn in investment backed by C4C a leading investor in employee owned businesses. The investment supports our own satellite mission now delivered jointly with ESA and valued ~£12Mn EUR. We work on projects for commercial customers and space agencies, as well as cutting edge R&D. We want to develop our employees to become stakeholders within the organisation, able to work within a team leading projects and developing future space mission concepts to make a positive impact. Our diverse team includes former leads of national space missions, experienced industry professionals, and subject matter experts in AI and quantum physicists. You will be given the opportunity to support the ongoing development of the company, while we work with you to support your career aspirations.

Benefits : 4 day week option at 80% FTE (Tu-Fr, at 80% salary)
Annual Leave: 33 days per year
(20 days Bookable plus 13 days Company Holiday)

Up to 16% pension (1:1 matched salary sacrifice)
Wellbeing and personal development budget (up to £600 pa)
Yearly team strategy and away days
Life assurance and medical/health support
Employee share ownership schemes (SIP and trust) and
Relocation costs (up to £1,400 in first year)

Location : Glasgow, UK

Note: although COVID means some of the work may be performed remotely, it is highly likely work within the company office will be required from the outset given the hands-on nature of the role.

Applying : Applicants should email a cover letter and CV to recruitment@craftprospect.com, using reference 23-01060.

Closing date : An initial closing date of 30th April 2023 is planned, however this may vary depending on the applicants and go live dates, so our recommendation would be to apply early.