

## Photonics Engineer

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Company: Duality Quantum Photonics

Location: Greater Bristol Area

Category: other-general

We design and build photonic quantum technologies from the ground up. Together with our partners, we are applying our technology to overcome barriers to clean energy, quantum networking, and quantum computing. We seek a Photonics Engineer to join our hardware team and contribute towards the design and prototyping of our quantum processors. This permanent role is full time (37.5 hrs/week) and on-site at our Bristol premises. Salary range is £50k - £66k depending on experience (a higher salary is possible where appropriate for more senior appointments). Additionally, we offer share options and other benefits. If you share our values and can help us achieve our goals, then Duality is a place where you can belong, whatever your background. Please consider applying to this role.

**Main roles** Design, test, and operate integrated quantum photonics experiments. Develop waveguide circuits with e.g. fibre-chip couplers, Mach-Zehnder modulators, and photon-pair sources. Conduct on-chip single-photon experiments and analyse data. Liaise with our nano-fabrication engineers for device tape-out and rapid prototyping.

**Required qualifications and experience** Ph.D in Physics, Engineering or a related field. 3+ years experience in a laboratory environment. Experience of the life-cycle of integrated photonics experiments, from concept to EM simulation, mask/GDS design, DRC and validation, packaging (electrical and optical), alignment, device calibration, data acquisition and analysis. Laboratory hardware control and automation (Python preferred). Electromagnetic simulation software (Lumerical preferred).

**Desirable Experience** Simulation and design of high-purity photon-pair sources. Operating multi-photon experiments with many degrees of freedom. High speed electro-optic modulators/RF electronics. Strong programming skills,

version control software, and use of Linux OS. Electrical/optical packaging e.g. ball/wedge wirebonding, UV epoxying. Cryogenic systems/operation of superconducting nanowire single photon detectors. Please submit a CV no longer than 2 pages via LinkedIn or email [jobs@dualityqp.com](mailto:jobs@dualityqp.com). No agencies please.

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