

**Senior Silicon Photonics Engineer: Reference ZPM1406SP****Location: Bristol, UK****About**

At Zero Point Motion we are redefining the limits of inertial sensors to enable high precision positioning and navigation. Our mission is providing exquisitely low-noise readout of acceleration and rotation using cavity optomechanics in a hybrid micro-electro-mechanical systems (MEMS) and photonic integrated circuit (PIC) chip.

We're an early stage start-up founded in 2020 to commercialise technology invented by the CEO Dr Lia Li, with a founding team comprised of eminent semiconductor veterans. We operate a fabless business model, and are VC funded.

We are seeking an enthusiastic senior silicon photonics engineer with prior experience in deploying photonic devices to volume production. You will be joining our team to shape our technology product-market fit that involves being involved in design, strategy, and workflow. Together we will bring aerospace/defence levels of sensor performance to commercial mass markets and transform indoor, autonomous and GNSS-denied navigation. Can you help us disrupt the inertial sensing market?

Zero Point Motion is based in Bristol and seeking candidates who are able to work on-site, with one day work from home option.

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**Role Overview**

As the ZPM senior silicon photonics engineer, you will draw upon your previous experience in successfully scaling a photonics related hardware device through production to support development of our MEMS/PIC devices to product launch. Our collaborative culture of knowledge exchange means no prior experience in MEMS inertial sensors is required, just your enthusiasm to learn. We are eager to find candidates with proven track record in chipscale LIDAR, optical switches, AR/VR headsets, fiber optic gyroscopes, lasers or MEMS enabled photonic devices such as beam steering mirrors.

You will be working directly with the company CEO/inventor, and will be responsible for decisive actions to strengthen our design, testing and supply chain operations suitable for introducing new inertial sensors for high volume commercial applications. Ideally you will have a background in integrated silicon and/or silicon nitride PICs including laser and detector integration, with exposure to the supply chain cycle (foundry, packaging, testing, qualification).

You will be part of our core team working with an experienced group of electronic engineers, physicists, chip designers and hardware engineers in a fast-paced environment that requires self-motivation and a willingness to embrace new ideas. We want dynamic people that understand the scale and nature of our goal, who can challenge our assumptions. This is an exciting opportunity to join a small start-up with big ambitions who will value your personal initiative.

## What you'll accomplish

- Take responsibility for the contribution of all photonic related aspects that feed into product-market fit, satisfying target cost of goods, monitoring yield and testing, and updating product specifications. You will be involved in strategic discussions relating to the photonic foundry, laser supply chain, integration and packaging, and testing and qualification.
  - It is critical that you can articulate what success looks like for a product and make quick decisions to bring our technology development and the team in-line with that vision
- Collaborate with the commercial team to understand customer pain points, requirements and timescales for product testing and delivery.
- Help define the vision for the product and product ranges, prioritising product features and capabilities and planning the R&D roadmap
- Own team backlog and fulfilment of work, working tightly with our MEMS Product Manager to outline and monitor the internal roadmap and plan for achieving product success

## The critical attributes we'll use to compare candidates

- Demonstratable experience of scaling photonic devices to production
- Prior experience in photonics related simulation and layout design– especially Lumerical
- Leadership skills for resource allocation
- Focussed on strong user adoption with ambitious product goals

## Must-have-skills

- Masters / PhD in Physics or Engineering
- 5+ years in photonics related production scale-up with track record in translating business requirements into technology
- Proficient at managing the customer conversation, building customer propositions from portfolio and roadmap technology
- Experience with working within small engineering teams and leading teams with integrity
- Demonstrate a strong discipline for thorough documentation
- Highly adaptable, good communication and interpersonal skills with prior project management experience
- Willing to travel

## Package

- Competitive salary
- Generous company package including share options, Royal London pension, and sick pay
- Flexible working arrangements

## Location & Travel

Zero Point Motion's office and lab space is located in the Bristol University Quantum Technologies Innovation Center amongst likeminded start-up companies. This role requires travel throughout the UK and abroad for conferences, meetings and engineering visits.

*Zero Point Motion is determined to foster belonging and empowerment at work. We are committed to providing a work environment where there's a zero-tolerance approach to discrimination, and everyone is treated with respect. Equity, diversity and inclusion are central to our mission and we strongly encourage candidates of all different backgrounds and identities to apply. If you need assistance or an accommodation due to a disability, please contact us.*