

Position ID	PhotonQ-IMS-1175
Type of position	Employment
Subject Area	Simulation, Design, Measurement
Type of institution	Research Institute of the State of Baden-Württemberg
Start date	ASAP
Type of contract	Permanent
PI	Dr. Mathias Kaschel, Dr. Kevin Edelmann
Location	Institut für Mikroelektronik Stuttgart (IMS CHIPS)
Application deadline	Until position is filled
Position description	<p>Designer for integrated photonics</p> <p>We are looking for a PIC designer to join our endeavour to developing new applications in the fields of sensing and quantum technologies.</p> <p>You will:</p> <ul style="list-style-type: none"> ▪ Design passive and electro-optical integrated photonic components (Si, SiN, AlN) to be fabricated in-house utilizing our fully fledged semiconductor manufacturing line ▪ Characterize the performance of these components on our wafer-level optical throughput tester ▪ Research and develop photonic assembly technologies with the aim to deliver self-reliant integrated systems based on our photonic chips ▪ Contribute to various publicly funded research projects (such as PhotonQ), as well as industry projects related to integrated photonics
Requirements	<ul style="list-style-type: none"> ▪ MSc or PhD in Electrical Engineering, Physics, or related ▪ Experience in the design and simulation of integrated photonic components (mode analysis, FDTD), ideally with Ansys Lumerical ▪ Ideally: basic knowledge about semiconductor technology ▪ Programming skills (Python, Matlab, ...) ▪ Conversational in German
Application documents	<ul style="list-style-type: none"> ▪ Cover letter explaining why you are interested in the position and what kind of background you have ▪ CV ▪ Certificates or transcript of records
Application	<p>Via our application portal</p> <p>https://k33469.coveto.de/job-entwickler-fuer-die-integrierte-photonik-m-w-d-stuttgart-1175.html</p>
Contact email	For additional questions, please contact: edelmann@ims-chips.de