

Position ID	PhotonQ-IMS-1173
Type of position	Employment with the option to pursue a PhD
Subject Area	Process Engineering
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>Process engineer for integrated photonics</p> <p>We are looking for a process engineer 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"> ▪ Research and develop new deposition and microstructuring processes for AIN waveguides utilizing our extensive semiconductor fabrication line ▪ Be responsible for integrated photonics runs ranging from various publicly funded research projects (such as PhotonQ), to industry projects and customer runs ▪ Optional: learn about simulation and design of integrated photonic components as well as their characterization
Requirements	<ul style="list-style-type: none"> ▪ MSc in Electrical Engineering, Physics, or related ▪ Hands-on clean room experience in the fields deposition, lithography, and/or etching ▪ Ideally: basic knowledge about design and simulation of integrated photonic components (mode analysis, FDTD) ▪ Programming skills (Python, C++, ...) ▪ 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-mit-moeglichkeit-zur-promotion-stuttgart-1173.html</p>
Contact email	For additional questions, please contact: edelmann@ims-chips.de