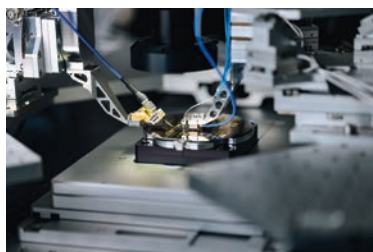


Automation by Drag and Drop

Supplier: SmarAct

Product: Modular software platform for developing, controlling, and executing automated processes.

Features: SmarAct's Development Software combines graphical drag-and-drop process modeling with an integrated Python interface. Native plug-ins support SmarAct hardware, while the open plug-in architecture enables the integration of additional devices and communication interfaces. Integrated image processing and visualization as well as customizable Qt-based user interfaces enable the development of application-specific operating concepts. The App Editor and Runtime provide separate development and execution environments.



Applications: The Development Software is suitable for automated research, testing, assembly, and production systems. In the electro-optical characterization of photonic integrated circuits, for example, the software connects device control, optical alignment, measurement, visualization,

and data processing through scriptable process components. This enables modular workflows for application-specific test systems to be created and executed.

SmarAct GmbH

Schütte-Lanz-Str. 9
26135 Oldenburg
Tel.: +49 (0) 441 800879 0
Fax: +49 (0) 441 800879 21
E-Mail: info@smaract.com
Website: www.smaract.com

Career in consulting

d-fine is a European consulting company with over 1,500 employees and a growing international presence with eleven offices distributed across seven countries. Our projects focus on quantitative challenges in data analytics, data science, modelling, and the development of sustainable technological solutions.

To expand our consulting & solutions teams, we are looking for students/graduates (m/f/d) of physics with a very good academic record, fluency in German and

English and a high mathematical and/or technological affinity.

Joining d-fine is possible throughout the whole year at the beginning of each month. After our intensive onboarding program, which lasts several weeks, you will join a (project) team working for our customers.

Our aim is that you feel at home with us and are motivated for the long term. That is why we offer you, in addition to exciting tasks and projects, a collegial team, attrac-

tive career and salary model, as well as a wide range of additional benefits, such as our extensive training program as part of the d-fine Academy. More information on d-fine can be found at: www.d-fine.com/karriere.

d-fine GmbH

An der Hauptwache 7
60313 Frankfurt
Phone: +49 (0) 69 90737-555
E-Mail: Careers.de@d-fine.com
Website: www.d-fine.com/karriere

Quantum Photonics 2027 in Erfurt

Quantum Photonics, a specialist conference and exhibition for quantum and photonics technologies, will take place on **27 and 28 April 2027** at the CongressCenter of Messe Erfurt. Here, experts from academia and industry will gather to discuss the latest scientific findings and showcase their industrial applications.

Visitors and exhibitors can look forward to a high-caliber conference program covering current topics in quantum and photonics technologies, alongside presentations of innovative products and technologies. In addition to conversations at exhibition booths and during the conference sessions, exclusive networking events offer all participants the opportunity to make the right connections in a productive environment.

A distinguished advisory board comprising representatives from academia, research, industry, and technology transfer ensures the technical quality and practical focus of Quantum Photonics. The advisory board guides the event's conceptual design and contributes its expertise to shaping the congress's content. In this way, Quantum Photonics bridges the gap between scientific perspectives and the demands and developments of industrial practice.

The goal of Quantum Photonics is to advance the development of systems in quantum technology and photonics. The initiative aims to create synergies and foster both research and industrial technology transfer in these fields. The event provides a networking platform for stakeholders

from applied research and industry, facilitating the collaborative exploration of optical components and systems, as well as the pooling and efficient use of resources.

You can find the latest information about the event at www.quantum-photonics.de.

Messe Erfurt GmbH

Gothaer Straße 34
99094 Erfurt
Phone: +49 (0) 361 400 0
E-Mail: info@messe-erfurt.de
Website: www.messe-erfurt.de

Tailor-made configurations for laser sources

Manufacturer: SuperLight Photonics

Product: Simulation-driven approach to configuring PIC-based wideband laser sources for specific customer applications

Features: The new offering enables customers to specify the performance required for their application rather than selecting from a predefined set of product specifications.

Many photonics applications require a specific combination of bandwidth and output power. Standard laser sources may come close, but "close" is not always good enough when optical performance directly determines the resolution, sensitivity or throughput capabilities of an application.

SuperLight Photonics addresses this challenge by starting with the customer's set of requirements. Using simulation-driven optimization, the engineering

team explores the available performance space and identifies the optimal balance between bandwidth and output power for the specific application.

Unlike fiber-based approaches, a photonic chip offers significantly greater design freedom in controlling the supercontinuum generation process. SuperLight Photonics extends this flexibility through the patented Patterned Alternating Dispersion™ (PAD) technology. By engineering the properties of the photonic circuit, it is possible to control more precisely how photons from the seed laser are converted and distributed across the spectrum, effectively directing optical power towards the wavelengths where the customer's application needs it most.

The PIC-based wideband laser technology provides a flexible platform for

applications including optical coherence tomography (OCT), spectroscopy, spectral imaging, interferometry and metrology. Each places different demands on the light source, making the optimum configuration application specific.

The simulation-driven approach allows SuperLight Photonics to evaluate these requirements before defining the laser configuration, reducing the dependency on fixed, off-the-shelf specifications.

SuperLight Photonics

Brandweerstraat 20

7514 AE Enschede

The Netherlands

Phone: +31 (0) 53 203 0213

E-Mail: info@superlightphotonics.com

Website: www.superlightphotonics.com

Two systems for plasma diagnostics

Manufacturer: Hiden Analytical

Product: Two complementary systems for plasma diagnostics: the EQP series and ESPion

Features: The EQP Series combines a high-transmission electrostatic ion energy analyser with a triple-filter quadrupole mass spectrometer for mass- and energy-resolved analysis of positive and negative ions, neutrals and radicals. Current configurations include the EQP-6, EQP-9 and EQP-20, with mass ranges extending to 5000 amu depending on the model. Energy scans can be performed in 0.05 eV increments, with energy resolution below 0.25 eV FWHM. Optional time-resolved acquisition to 50 ns supports studies of pulsed plasmas, ignition, extinction and transient events. MASsoft Professional

software provides instrument control, data acquisition and analysis.

ESPion is a Langmuir probe system for real-time measurement of key plasma parameters, including plasma and floating potential, electron temperature, ion and electron density, ion flux, EEDF and Debye length. ESPionSoft provides automatic analysis using OML and ABR models. Probe options support RF, DC, pulsed and high-temperature plasma measurements, while automated Z-drive configurations enable spatially resolved studies.

Together, EQP and ESPion support detailed investigation of plasma chemistry, particle energies and electrical plasma properties for research and process development.

Hiden Analytical Europe GmbH

Kaiserswerther Straße 215

40474 Düsseldorf

Tel.: +49 (0) 211 54080 302

E-Mail: info@hideneurope.de

Website: www.hideneurope.de



pro-physik

www.pro-physik.de

WILEY-VCH