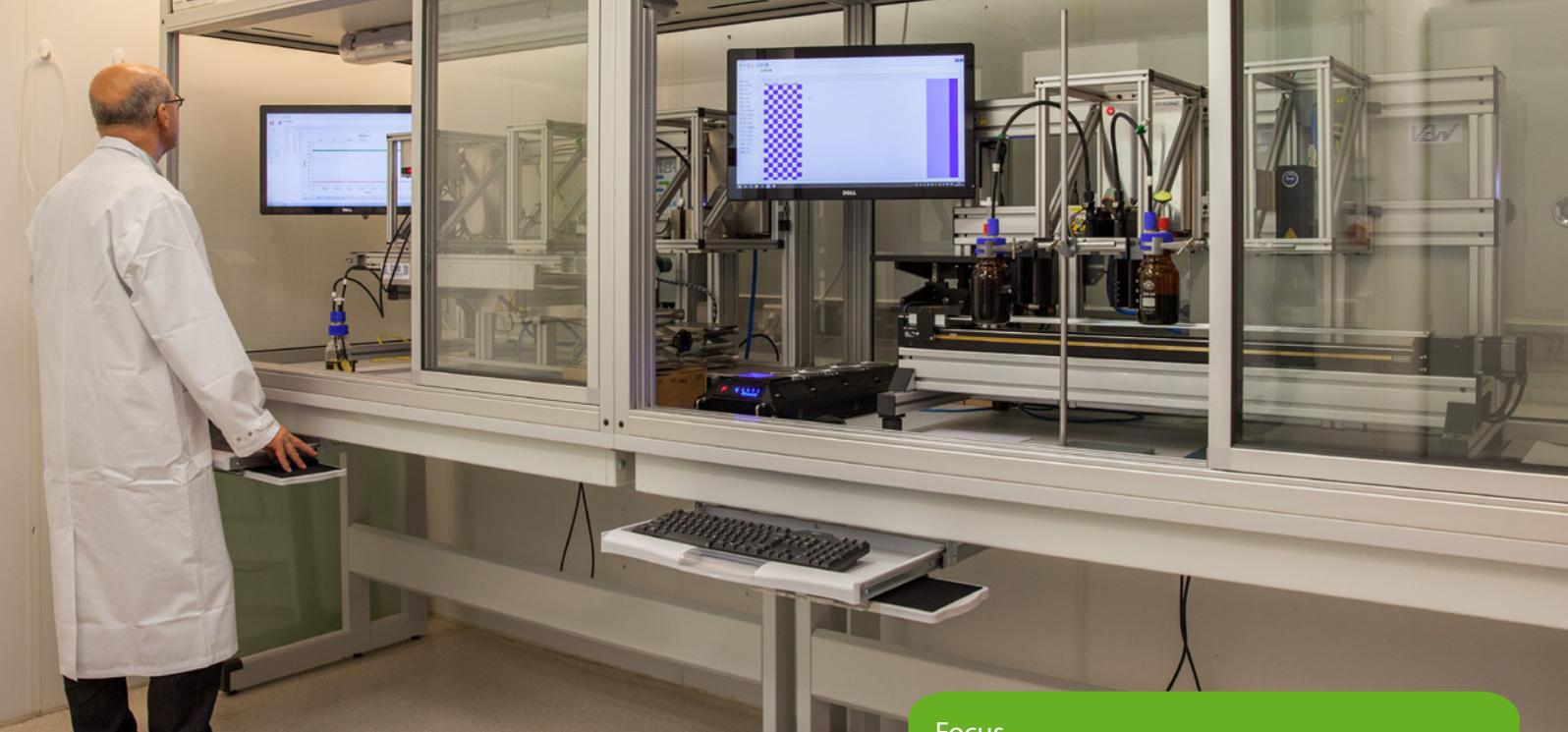


# High performance inkjet ink design

- ✓ Fast prototype iterations
- ✓ Modular testrig approach
- ✓ System integration



**CHEMSTREAM**  
SUSTAINABLE CHEMISTRY



## High performance inkjet ink development

Our inkjet inks reach the highest quality standard level for zero defect performance for industrial applications. Based on an advanced carrier design and on our high performance dispersions, our inks have a long shelf life and they can be used without any problem in high resolution mode.

To reach the highest performance quality in the most efficient way, ChemStream is using modular inkjet printing (and curing) devices with interchangeable printhead modules, to study jetting performance and dot placement of different ink prototypes by successive iteration cycles. The best guarantee to meet the end user requirements of the functional inks, is to take the other system components (including printhead, drying/curing, ink supply, etc.) into account at the start of the ink development and formulation process.

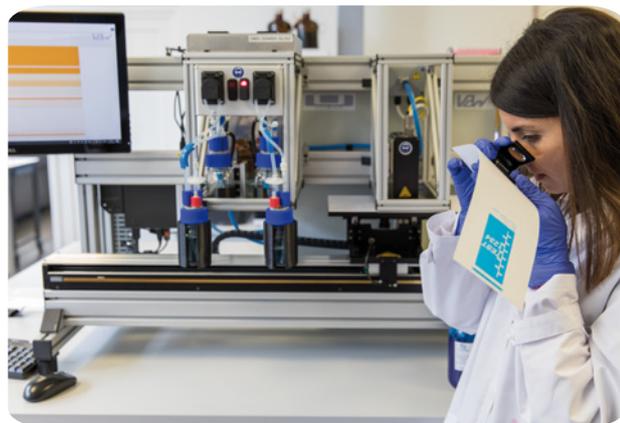
Depending on the application we can provide you with water based, oil based, mild solvent (= low volatile carrier) or curable (= UV-light, UV-LED, electron beam) inkjet inks. We can perform in house jetting and printing tests to finalize the ink formulation to your specific process conditions, like throughput, cure speed, curing system, pin curing, multi pass, single pass.... We work in close relationship with system integrators and head manufacturers to optimize the ink / head interaction. We can provide inks for the most common industrial drop on demand piezo print heads: Xaar, Toshiba Tec, Konica Minolta, Kyocera, Fuji-Dimatix, Ricoh, Seiko...

### Focus

- ✓ System Integration: piezo drop on demand printheads, high throughput, single pass, myriads of substrates
- ✓ Inks: waterborne and radiation curable inks, based on high performance nano-sized dispersions
- ✓ Applications: high resolution 3D printing, printed electronics, label & packaging, decoration, encoding, counterfeiting, direct to object...

### Main features

- ✓ Short development times
- ✓ Customized approach
- ✓ Low investment during feasibility phase



ChemStream, an innovative chemical R&D company, is specialized in translating material problems in sustainable formulations with focus on high performing nano-dispersions, functional coatings and inkjet inks. The R&D core team has more than 20 years experience in application driven and customized product development. ChemStream has its own lab facilities for chemical synthesis, formulating and characterizing from design to end user product.