



QustomDot

QustomDot  
Technologiepark 66  
9052 Ghent-Zwijnaarde  
Info@qustomdot.com

## MicroLED device specialist

### Introduction

QustomDot is an advanced materials start-up founded in January 2020, and a Ghent University spin-off. We develop color conversion technology for future applications.

QDs are semiconductor nanoparticles that can transform UV or blue light into pure colors such as green and red, through a process known as down-conversion. The emission color of the QDs is determined by the size of the QDs, which we precisely control through state-of-the-art synthetic procedures. A strong advantage of QDs is that they are obtained as a colloidal dispersion, which opens industrially relevant processing strategies such as direct printing or photolithography. As we speak, QDs are at the birth of the next technological revolution in the display industry, after LCD and OLED. Current QD technologies, however, suffer from instabilities under the influence of high light flux and elevated operating temperatures. We at QustomDot have developed a technology that renders QDs suitable to be used as down-converter directly on LED chips, thereby moving into the application field of microLEDs, *the next big thing*.

QustomDot aims to realize the full potential of QDs in the imaging and display industries and for that, we are looking for talented and motivated scientists to strengthen our team. For the position of device specialist, we are looking for a profile as listed below. If your profile matches several points from the list, we are interested in talking to you. As device specialist, you will assist our CPO in defining product specs and defining customer projects from an application perspective. You will help our partners achieve color conversion in their devices by supervising projects, analyzing customer samples, performing modelling assignments, etc.

### Profile

Qualifications:

- Expertise in display applications (LCD, OLED, microLED etc.)
- PhD/Master's degree in a relevant field
- Hands-on experience in design and development of (color-converted) displays, optical modelling, characterization of produced samples, etc.
- Process understanding and experience with Silicon process technologies such as lithography, etch, deposition (PECVD, ALD, PVD), CMP, metallization, etc., including related metrology techniques
- Open to working in a small team and flexible environment, willingness to travel and spend time at a customers' facilities abroad

Beneficial skills:

- Experience in an industrial R&D/production environment
- Experience in color-conversion of microLEDs

### Our offer

We offer a full-time position in a growing company working at the cutting edge of display technology.

### Interested?

Let us know via [info@qustomdot.com](mailto:info@qustomdot.com) by sending us your C.V. and motivation letter.