



IMPRESS-PCP MATCHMAKING TOOL

PROFILE OF COMPANIES SEEKING PARTNERSHIPS

LIST OF COMPANIES

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condenZero AG

Switzerland

condenzero.com

Denys Sutter

dsutter@condenzero.com

Sector

cryo-TEM Sample Holders

Expertise

Manufacture of TEM components: UHV

Manufacture of TEM components: Micro-machining

Manufacture of TEM components: Cryogenics

Startup/Investor expertise

Market presence

European

Short description of the company

We develop continuous flow liquid helium cryostats, implemented in TEM sample holders.

Support/expertise the company is offering

Cryogenic and UHV expertise.

Support/expertise the company is looking for

Potential partner companies for future product developments.

Role the company would like to have in a partnership with other companies

Partner

DEMCON kryoz

The Netherlands

kryoz.demcon.com

Pieter Lerou (Managing Director)

pieter.lerou@demcon.com

Sector

Cryogenics

Expertise

Manufacture of TEM components: UHV

Manufacture of TEM components: Micro-machining

Software development, electronics synchronization and remote control

Innovation partnering expertise

Startup/Investor expertise

Mechatronics, Modelling, R&D, Quality, Industrialization & Production

Market presence

International

Short description of the company

DEMCON kryoz is part of the Demcon Group (>1000 employees) and specializes in (semi)customized (cryo) cooling systems for various applications including electron microscopy. Besides our liquid nitrogen free CryoEM cryocooler, we also have much experience with Stirling/Pulse Tube type, TEC and cryogen/liquid cooling.

Support/expertise the company is offering

Cryogenic system design, analyses, modelling, (PoC) testing, realization, industrialization and production.

Support/expertise the company is looking for

DEMCON kryoz would like to be part of a consortium working on this challenge. We would like to focus on the cryogenic part using our expertise on (cryogen free) vibration free cryocooling.

Role the company would like to have in a partnership with other companies

To be defined

Insight Chips

Denmark

www.insightchips.com

Emil C.S. Jensen

emil@insightchips.com

Sector

Liquid Phase Electron Microscopy

Expertise

Manufacture of TEM components: Micro-machining

Startup/Investor expertise

Microfabrication of microchips

Market presence

National; European; International

Short description of the company

Insight Chips has since 2019 been commercializing the Nanochannel chip system for liquid phase electron microscopy, making it available for global researchers to image any sample with atomic resolution while controlling experimental conditions.

Support/expertise the company is offering

Nanochannel chip systems for liquid and gas with temperature control. Soon also electrochemical control.

Support/expertise the company is looking for

Partnership in the framework of the project, new applications of our products, future product development and implementing our systems in other companies' systems.

Role the company would like to have in a partnership with other companies

Partner; Subcontractor; To be defined

Quantum Detectors Ltd

United Kingdom quantumdetectors.com
Liam O’Ryan (Chief Technology Officer) liam@quantumdetectors.com

Sector Detectors
Expertise Software development, electronics synchronization and remote control
Innovation partnering expertise
Startup/Investor expertise
Detectors

Market presence National; European; International

Short description of the company

Quantum Detectors was founded in 2007, a technology spin-out from the Science & Technology Facilities Council (STFC) and Diamond Light Source (DLS), the UK’s synchrotron radiation facility. Our core mission is to make cutting-edge technology accessible to the global science community. The company today is a market-leading provider of detector systems for X-ray detection and electron microscopy, with a customer base including large science facilities, universities and industrial R&D. We have hundreds of systems deployed worldwide.

Support/expertise the company is offering

We are interested in making direct electron detectors prioritising interoperability between column manufacturers. Key to this is being able to integrate detectors with the user facing software of the microscope such that metadata is available to the user as part of the camera data stream. QD manufactures the detector and camera systems and writes the necessary software to control the cameras and collect data. We also manufacture and deploy scan control systems and write the software required to drive those.

Support/expertise the company is looking for

Support from column manufacturers to integrate with their systems, or alternatives to the column manufacturers’ systems which are widely deployed within the global scientific community.

Role the company would like to have in a partnership with other companies

To be defined

TESCAN GROUP, a.s.

Czech Republic www.tescan.com
Petr Mareš (Product Manager) petr.mares@tescan.com

Sector SEM, FIB-SEM, TEM and micro-CT instrument manufacturer
Expertise Innovation partnering expertise

Market presence International

Short description of the company

TESCAN Group enables nanoscale investigation and analysis within the geosciences, materials science, life sciences and semiconductor industries. The company has a 30-year history of developing innovative electron microscopy, micro-computed tomography, and related software solutions for customers in research and industry worldwide. For example, TENSOR is the first 4D-scanning transmission electron microscope (4D-STEM) built from the ground up for a totally new level of performance and user experience. As a result, TESCOAN Group has earned a leading position in micro- and nanotechnology. TESCOAN Group is headquartered in Brno, Czech Republic, employs more than 750 people in 14 sites around the world.

Orsay Physics (member of the TESCOAN Group) develops and markets Ion Implantation Tools (FIB-based) and custom UHV systems using FIB, SEM and SIMS technologies.

Support/expertise the company is offering

We are interested in this project primarily to open new applications for our TENSOR 4D-STEM microscope. We can offer support in integration unique TEM holder prototypes for advanced 4D-STEM measurements.

Support/expertise the company is looking for

We are looking for a partner who is interested in developing pioneering TEM holders for various applications - e.g. fast 4D-STEM measurements, precession-assisted 4D-STEM, low-dose measurements, in-situ analysis or other high-end research areas.

Role the company would like to have in a partnership with other companies

Partner; To be defined