

Technical University of Denmark Purchase Rigaku XtaLAB Synergy-ED to Establish Electron Crystallography Facility

Rigaku announce the sale of another XtaLAB Synergy-ED electron diffractometer to DTU allowing researchers to elucidate the structure of nanocrystals.

THE WOODLANDS, TEXAS, USA, May 16, 2023 /EINPresswire.com/ -- [Rigaku](https://www.rigaku.com) is proud to announce the sale of another XtaLAB Synergy-ED electron diffractometer. The system will go to the [Technical University of Denmark](https://www.dtu.dk), where the Department of Chemistry is establishing the DTU – Electron Crystallography Facility.

As the first electron diffractometer to market, and the most comprehensive, with a proven software package,

CrysAlisPro, the XtaLAB Synergy-ED enables researchers to elucidate the structure of nanocrystals at sub-Angstrom resolution. Crystals in this size range are difficult - if not impossible - to characterize using more conventional X-ray diffraction, either in a home lab or

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*Professor and Facility Director
Kasper S. Pedersen*

even at a synchrotron. The release of the XtaLAB Synergy-ED electron diffractometer (developed in collaboration with JEOL) extends Rigaku’s reputation as the leading provider of crystallography solutions.

The new DTU - Electron Crystallography Facility is due for inauguration in August and will cater to both academic and commercial partners. While the XtaLAB Synergy-ED will be the centerpiece of the facility, it will be supported by sample preparation capabilities in newly designed



Prof. Kasper Pederson (left) and Dr. Mariusz Kubus from DTU pictured with the Rigaku Synergy-ED electron diffractometer at Rigaku’s office in Germany.

laboratories. The facility welcomes and provides opportunities and collaborations across the university and for external parties in areas including - but not restricted to - drug discovery, catalysis and energy materials.



Rigaku - Providing cutting-edge X-ray solutions for 70 years.

“Following a comprehensive evaluation of potential solutions, we eagerly anticipate the installation of our XtaLAB Synergy-ED,” said Professor and Facility Director Kasper S. Pedersen, DTU Chemistry. “This new capability will greatly enhance our ability to conduct pioneering research across many fields such as chemistry, materials science, and biology, where structural information at the atomic and molecular level is key.”

Dr. Mark Benson, General Manager, Global Sales and Marketing for Single Crystal for Rigaku, commented, “The crystallography community has embraced the XtaLAB Synergy-ED ever since we launched the product. We have had consistently strong levels of interest, and this has translated into sales that have exceeded our expectations, justifying our investment into electron diffraction. As a result, the XtaLAB Synergy-ED has become the instrument of choice for institutions looking to expand their crystallography capabilities.”

For more information about the Rigaku XtaLAB Synergy-ED electron diffractometer, please visit www.rigaku.com/products/crystallography/synergy-ed.

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