

Enabling next level industrial research



A **next generation** synchrotron developed together with academia and industry





Located in Science Village Scandinavia

City district with two of the world's most advanced science facilities

European Spallation Source (ESS)

MAX IV

Laboratory

Science Village



Photo: COBE

This is **MAX IV**

- State-of-the-art laboratory
- Advanced X-ray microscope
- Electron accelerator with 16 beamlines
- 4th generation synchrotron (first diffraction-limited light source)
- Open to researchers from all over the world











INDUSTRIAL RELATIONS OFFICE



Biology at different length scales



NanoMAX MedMAX I BioMAX MicroMAX MedMAX II ForMAX coSAXS Balder SoftiMAX 10⁻⁶ m 10⁻⁹ m 10⁻¹⁰ m Animals Organs Tissues Cells Micro-Molecular Biomolecules Atoms structures complexes Disease Histopathology Molecular Medicine/Chemical Biology **Cell Biology** models



Drug discovery and development process



InfraLife

Structural Biology



Macromolecular crystallography

Serial crystallography



Structure based drug design





Experimentstationen på BioMAX. Bild: Uwe Mueller

Röntgen hjälper forskare analysera SARS CoV-2-virusets tillväxt

15 maj, 2020 Artikel från Lunds universitet Ämne: Hälsa & medicin, Natur & teknik

Lunns

Internationella forskare studerar tre olika proteiner från coronaviruset SARS CoV-2 med hjälp av strålröret BioMAX vid MAX IV-laboratoriet i Lund. Nyligen lyckades de bestämma strukturen hos, och påbörja analysen av ett av dessa proteiner, Nsp10.









✓ Free

- ✓ Apply for beamtime (2 open calls/year)
- ✓ Collaborate with an academic research partner
- \checkmark Proposals ranked on scientific merit
- ✓ Publish your results



- ✓ Paid
- ✓ Faster, industry-tailored access
- ✓ Full confidentiality and IP rights
- ✓ One time project or long-term framework agreement
- ✓ You own your results



Different routes into MAX IV





One **central gateway** to MAX IV and ESS for companies

- Access industry services at MAX IV, ESS, and the associated ecosystem
- Find research partners for experiments and research proposals
- See how other companies have used the facilities (cases, knowledge base)

→ <u>www.maxess.se</u>



FIND PARTNER

CASE STUDIES KNOWLEDGE BASE V EXPLORE THE ECOSYSTEM AB

ABOUT JOIN

WELCOME TO MAXESS INDUSTRY ARENA

MAXESS Industry Arena is an evolving national initiative supporting and facilitating industrial use of the large-scale research infrastructures MAX IV and ESS, and the associated eco-system. MAXESS Industry Arena facilitates partnerships between experts and industrial users through maxess.se, case studies, networking events as well as guided introductions to the industrial advantages of neutron and synchrotron tools.

Find research partner or services

Team up with our network of experts to improve your products and processes with the help of x-ray and neutron techniques.

Learn by example!

Read industry case studies to learn how other companies have benefited from using X-rays and neutrons to improve their products and processes.



Explore the ecosystem

Buy beamtime







Questions? Ideas?



INDUSTRIAL RELATIONS OFFICE