






Join the next generation of synchrotron experts
and advanced X-ray scientists!

Become a PRISMAS PhD student

Why PRISMAS?

- Tackle societal challenges using synchrotron techniques
- Avail yourself of interdisciplinary and intersectorial research
- Benefit from the network surrounding Swedish academia and MAX IV

PRISMAS in numbers

-  40 Doctoral students
-  1 January 2023 – 31 December 2027
-  Coordinator:
MAX IV Laboratory
-  Implementing partners:
8 Swedish Universities
-  Total budget: €15,7M
EU-Contribution: 33%
Consortium: 67%

Research areas

- healthy planet
- healthy people
- clean energy
- sustainable technologies
- accelerator science

How to participate?

- [Open positions](#)
- [Who can apply?](#)
- [How to apply?](#)



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webpage](#)

2nd CALL

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Co-funded by
the European Union

MAX IV

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Project Title	Affiliation	PI
Accelerator Science		
Generation of ultra-short light pulses	Lund University	Francesca Curbis
Clean Energy		
Soft X-ray spectroscopy study of molecular semiconductors for durable organic photovoltaics.	Karlstad University	Ellen Moons
Event-averaged and time-resolved ambient-pressure XPS as a new tool to study catalysis.	Lund University	Jan Knudsen
Time-resolved APXPS for the investigation of atomic layer deposition	Lund University	Joachim Schnadt
Topology of Ultra Thin Metal Films on Semiconductors	Karlstad University	Hanmin Zhang
Using magnetoionics and x-ray scattering to investigate energy materials under in-operando conditions	Uppsala University	Germán Salazar Alvarez
Opening a new era in tribology: Rheology-Tribology -SWAXS (RheoTrib-SWAXS)	Luleå University of Technology	Nazanin Emami
Nanoscale domain fluctuations in functional materials from X-ray photon correlations	Stockholm University	Martin Beye
Healthy people		
Liquid-liquid phase separation mediated by phosphorylated intrinsically disordered proteins	Lund University	Marie Skepö
Tracking ATP-Dependent Protein Dynamics	Umeå University	Magnus Andersson
Structure and dynamics of solid-sate formulations of biologics	Malmö University	Vitaly Kocherbitov
Time resolved studies of Urocanate Reductase - a Novel Microbial Enzyme Producing Imidazole Propionate	Lund University	Karin Lindkvist
Structure-based fragment screening targeting Cancer	Stockholm University	Pål Stenmark
Healthy planet		
Spectroscopic and geometric characterization of high-valent dinuclear metalloprotein intermediates	Stockholm University	Martin Högbom
Uncovering the thermal and mechanical degradation mechanisms of coated ultrahard cutting tools for sustainable machining applications	Lund University	Rachid M'Saoubi
Food proteins from plant sources: from structure and interactions to tunable assembly	Lund University	Felix Roosen-Runge
How could oxidation state and local structure of chromium affect strategies for phosphorus recovery?	Umeå University	Nils Skoglund
Chlorine Surface Activation Mechanism on Wildfire Smoke Particles and Its Relevance to Stratospheric Ozone Depletion	University of Gothenburg	Xiangrui Kong
Closing the Loop: Chemical Speciation using XAS a Key for Safe Secondary Use of Materials	Lund University	Jenny Rissler
Aerosol particle surface characterization in-situ for enhanced atmospheric science	Lund University	Axel Eriksson
Sustainable Technologies		
Misfit strain detection in precipitate hardening alloys by Bragg coherent diffraction imaging	Malmö University	Martin Fisk
Identifying Active Sites in Electrochemical Ammonia and hydrocarbon Synthesis via In Situ APXPS and XAS	Stockholm University	Jiayin Yuan
Multiscale dynamics of nano-cellulose materials using unique Rheo-SWAXS techniques at MAX IV	Lund University	Karen Edler
Orientation of cellulose nanofibers in spun filaments and effect of moisture studied in-situ WAXS	Luleå University of Technology	Kristiina Oksman
Using NanoMAX to understand Additive manufacturing of rare-earth-free permanent magnets	Uppsala University	Martin Sahlberg
Quantum properties of direct-Chemical vapor Deposited two-dimensional (2D) heterostructures	Uppsala University	Venkata Kamalakar Mutta