

# Visit SOLARIS National Synchrotron Radiation Centre

We would like to invite PhD students to participate in the first activity carried out by the PhD Student Council of Doctoral School of Exact and Natural Sciences - a visit to the SOLARIS National Synchrotron Radiation Center.

The Solaris is the only synchrotron in Central-Eastern Europe providing access to a unique infrastructure that facilitates the measurement of samples with radiation in the range from infrared to soft X-rays.

Thanks to synchrotron radiation, it is now possible to obtain detailed information about sample composition, surface properties, and structure at high spectral and spatial resolutions. Synchrotron light is widely used in physics, biology, chemistry, material sciences, nanotechnology, crystallography, pharmacology, geology, crystallography, etc., mostly due to its high intensity and collimation.



You can join one of four thematic tours related to different research fields. During each tour, it will be possible to see the experimental hall with the heart of SOLARIS – a storage ring where electrons are stored and accelerated. In each of the following groups, there are 20 places, if you are interested to participate in the visit, please fill out the form on our website

[www.synchrotron.uj.edu.pl/centrum/phd-programme](http://www.synchrotron.uj.edu.pl/centrum/phd-programme)



## BIOLOGY

Presentation of Cryo-EM microscope, presentation of techniques dedicated for biological samples measurements.

**16.05.2022; 2 p. m.**



## INFORMATICS

SOLARIS uses unique solutions to handle highly developed hardware and software components. Visit – control room, an overview of the synchrotron.

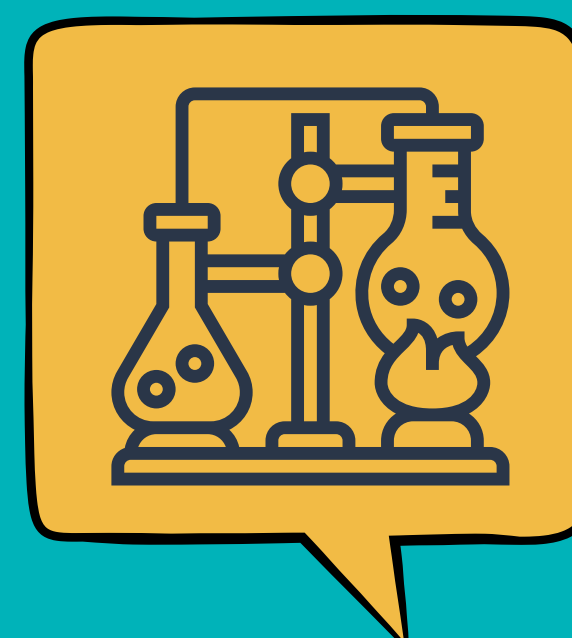
**23.05.2022; 2 p. m.**



## PHYSICS

Presentation focused on linear particle accelerator (linac), synchrotron storage ring, soft X-ray beamlines, and control room.

**17.11.2022; 2 p. m.**



## CHEMISTRY

Presentation of how synchrotron is irreplaceable for research in the field of chemical composition changes, structure, and conformation.

**24.11.2022; 2 p. m.**

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### Organizers:

