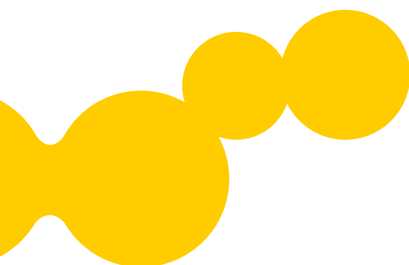




JAGIELLONIAN UNIVERSITY
IN KRAKÓW



SCIENCE AND RESEARCH



- From idea to innovation.
- From discovery to implementation.
- From passion to progress.

SCIENCE AND RESEARCH AT THE JAGIELLONIAN UNIVERSITY

For over **660 years**, the Jagiellonian University has been an inspiring place for scholarly pursuits. Today, it is a **modern higher education institution** with a global reach which combines respect for tradition with cutting edge interdisciplinary research projects.

The Jagiellonian University is a leader in securing grants from the **National Science Centre** and ranks among the top institutions in Poland in terms of the number of projects funded by the **European Research Council (ERC)**. Each year, the JU launches over

→ **1000** 
research projects

As many as

→ **133** 
JU researchers

were listed in **World's Top 2% Scientists ranking (2024)**, which marks an increase of 20 since the previous year.

BIOTECHNOLOGY AND MEDICINE OF THE FUTURE

At the Małopolska Centre of Biotechnology, researchers analyse genomes, proteins and mechanisms of diseases, laying the foundations for personalised therapies.

The Jagiellonian Centre for Experimental Therapeutics (JCET) designs new therapeutic molecules and innovative diagnostic methods.

Research teams make use of the technological advances in biology and medicine, developing gene and immunological therapies, including ones supported by AI.

INNOVATIONS IN IMAGING

J-PET is a unique positron tomography system that enables real-time whole-body imaging, marking a breakthrough in oncological diagnostics.

The JU Brain Research Centre, equipped with a Siemens Magnetom Prisma 3T scanner, conducts studies in neuroimaging and carries out projects that combine psychology, neuroscience and medicine. It is one of the most important brain research centres in Central Europe.

SCIENCE IN THE SERVICE OF OUR HEALTH

The Jagiellonian Center for Clinical Trials as well as a network of University Hospitals provide comprehensive facilities for clinical research – from diagnostics to the implementation of new therapies.

Modern **MRI, CT and ultrasound** equipment enables clinical trials in line with the highest standards.





DIGITAL HUMANITIES AND SOCIAL IMPACT

The Jagiellonian University is a leading centre for research in the humanities and social sciences in Europe.

The **Centre for Digital Humanities** creates digital editions of sources and tools for language and cultural analysis.

The **Copernicus Centre for Interdisciplinary Research** explores the nature of consciousness, the limits of cognition and the ethical aspects of technological progress.

Through collaboration with **Una Europa and The Guild institutions**, JU humanities are now part of a wider, European marketplace of ideas.

EXACT SCIENCES AND EMERGING TECHNOLOGIES

At the **JU Astronomical Observatory**, scientists analyse stellar variability, create new sky maps and study astrophysical phenomena in cooperation with international observational networks.

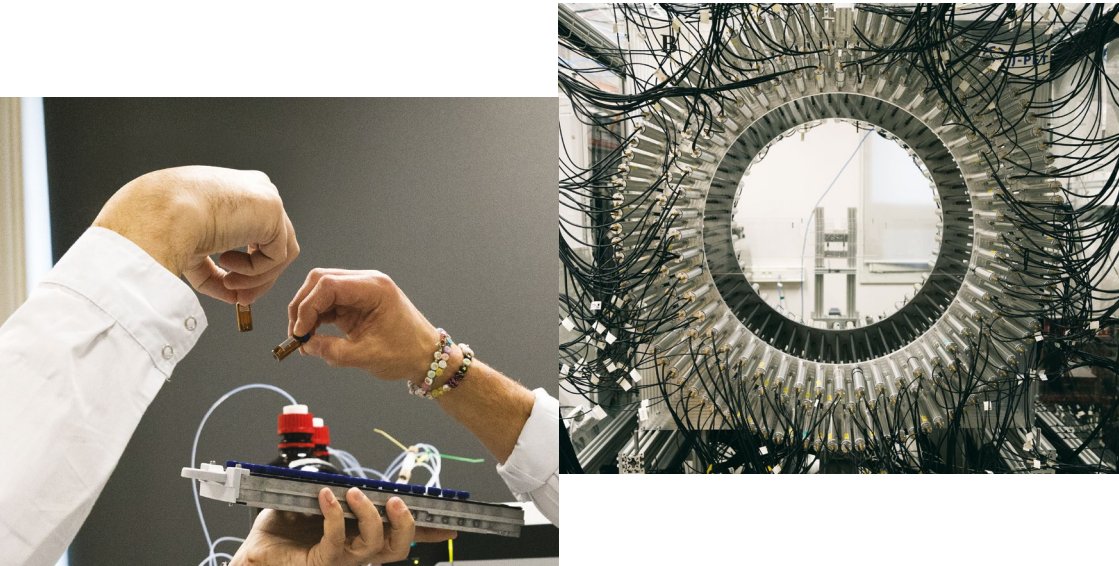
The SOLARIS synchrotron is the largest and most unique research facility of its kind in Central and Eastern Europe, enabling studies of materials, nanostructures and biomolecules at the atomic level.

Many projects are carried out in collaboration with local (Cyclotron Centre Bronowice) and global (CERN) units conducting research on proton therapy and particle physics.

INNOVATION AND KNOWLEDGE TRANSFER

The Centre for Technology Transfer CITTRU provides support in intellectual property protection and research commercialisation.

The Academic Business Incubator operating within CITTRU helps students and doctoral candidates develop their own start-ups, bringing together the worlds of science and business.



TRADITION AND FUTURE

The Jagiellonian University employs about

→ **5000** 
academic staff

including

↓
500 
professors

From Nicolaus Copernicus's research to contemporary projects in the area of medicine, nanotechnology and digital humanities, the Jagiellonian University remains a place where exact sciences and the humanities create a common language for understanding the world.

The Campus Living Lab project is focused on initiatives related to applied research. Living Lab is an innovative, participatory form of collaboration that bridges the gap between theory and practice. Such laboratories provide an environment for testing and co-creating solutions within the Quadruple Helix model, which combines the involvement of society, public administration, business and science.





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