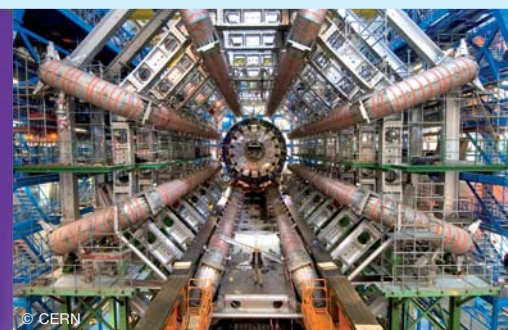
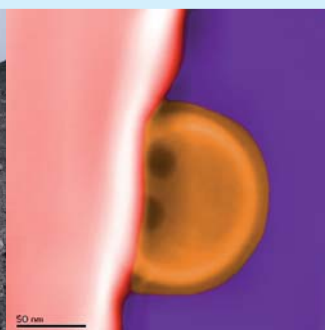
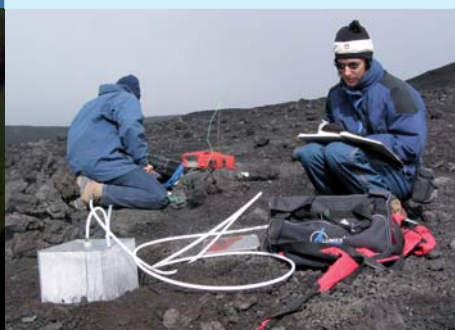
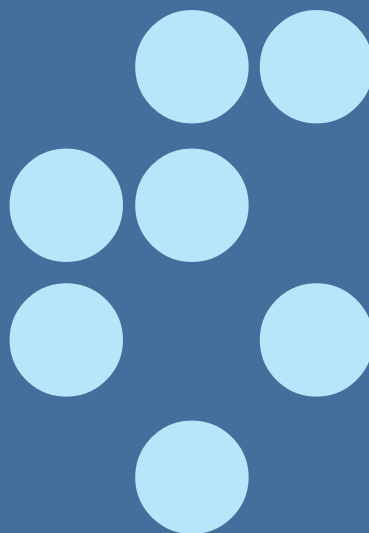




Jožef Stefan Institute, Ljubljana, Slovenia

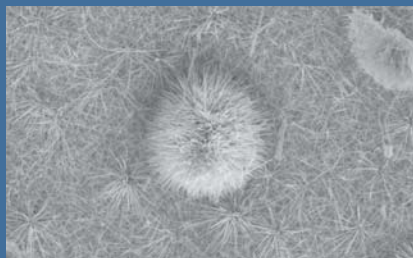
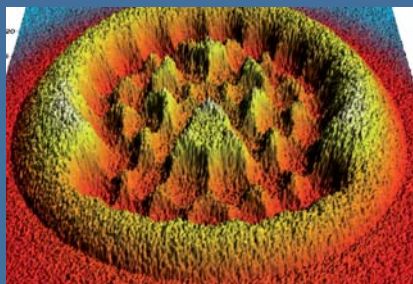
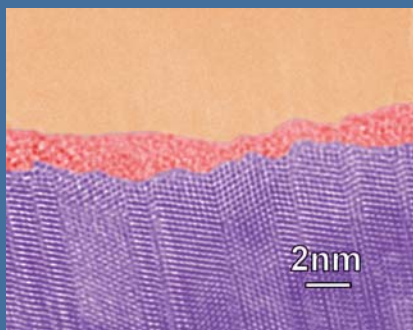


**WORLD OF SCIENCE AND TECHNOLOGIES**





## Jožef Stefan Institute



The Jožef Stefan Institute (JSI) is the leading Slovenian scientific research institute, covering a broad spectrum of basic and applied research. The staff of around 800 specializes in natural sciences, life sciences and engineering. The main subjects concern production and control technologies, communication and computer technologies, knowledge technologies, biotechnologies, new materials, environmental technologies, nanotechnologies, and nuclear engineering.

The JSI is financed through the national projects of the ministries of the Republic of Slovenia and the Slovenian Research Agency, international bilateral and multilateral projects and industrial projects in Slovenia and abroad. An important fraction of the JSI's revenues derive from international contracts.

The JSI accumulates and disseminates knowledge and technologies to the benefit of society at large through the pursuit of research, development and education at the highest international level of excellence. The basic goals of the JSI are to provide expert scientific and applied output in the form of processes, products and consultancy, and to produce well-trained young scientists.

The JSI maintains close links with the Slovenian universities. Many scientists who once had the opportunity to develop their research talents at the JSI have later been appointed to teaching posts, while still retaining their research positions or leading research teams at the JSI.

The JSI was founded in 1949 as the Institute of Physics, primarily devoted to research on nuclear energy. Later it became the Jožef Stefan Institute, as research spread to other fields. It is named after the distinguished 19<sup>th</sup>-century physicist, Jožef Stefan, most famous for his work on the Stefan-Boltzmann law of black-body radiation.

**THE JOŽEF STEFAN INSTITUTE, A CO-FOUNDER OF:**

University of Nova Gorica

The Jožef Stefan International Postgraduate School

Technology Park Ljubljana

ERICo Velenje

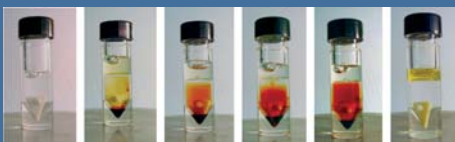


The Institute has facilities at two locations. The main facilities and the headquarters are at Jamova 39 in Ljubljana, the other location is the Reactor Center Podgorica in Dol near Ljubljana.

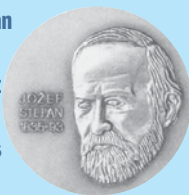


More than 170 scientists have been appointed as professors at universities, and more than 70 have full-time teaching posts.

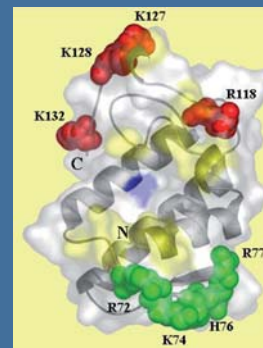
Over 700 Ph.D. theses, 800 M. Sc. theses and 2000 B. Sc. theses have been completed at the JSI.



To encourage scientific excellence in the young, the Jožef Stefan Golden Emblem Prize is awarded annually for the best doctoral dissertations in the natural and medical sciences and technology.



Every year the JSI concludes new international cooperation agreements with research institutions around the world; it currently cooperates in more than 300 bilateral and multilateral projects.



The JSI collaborates with numerous industrial organizations in Slovenia and abroad. To accelerate the transfer of knowledge and technologies for marketable applications the Technology Park was established at the JSI. A close collaboration with a number of medical institutions has resulted in the development of medical equipment, such as tomography, electrical stimulators and appliances, the provision of isotopes for clinical research and the treatment of patients, and the introduction of new research techniques and diagnostic methods in clinical medicine.



Financing postgraduate study and research training for young researchers is an important national scientific policy instrument that has been going on with great success since 1985. Young researchers participate in research work during their postgraduate studies on basic or applied research projects.

## RESEARCH DEPARTMENTS AND CENTRES

### RESEARCH DEPARTMENTS

#### *Physics*

Theoretical Physics  
Low and Medium Energy Physics  
Thin Films and Surfaces  
Surface Engineering and Optoelectronics  
Solid State Physics  
Complex Matter  
Reactor Physics  
Experimental Particle Physics

#### *Chemistry and Biochemistry*

Inorganic Chemistry and Technology  
Physical and Organic Chemistry  
Electronic Ceramics  
Engineering Ceramics  
Nanostructured Materials  
Advanced Materials  
Biochemistry, Molecular and Structural Biology  
Molecular and Biomedical Sciences  
Biotechnology  
Environmental Sciences

#### *Electronics and Information Technologies*

Automation, Biocybernetics and Robotics  
Systems and Control  
Open Systems and Networks  
Communication Systems  
Computer Systems  
Knowledge Technologies  
Intelligent Systems

#### *Reactor Engineering and Energetics*

Reactor Engineering

### CENTRES

Reactor Infrastructure Centre  
Centre for Networking Infrastructure  
Science Information Centre  
Energy Efficiency Centre  
Centre for Knowledge Transfer in Information Technologies  
Milan Čopič Nuclear Training Centre  
Helium Liquifier with Superconducting Magnet and Helium Regeneration System  
Mass Spectrometry Centre  
National Centre for Microstructure and Surface Analysis  
Centre for Electron Microscopy  
Microanalytical Instrumental Centre  
National High Resolution NMR Spectroscopy Centre

#### *Technology Centres*

Centre for Production Automation, Robotics and Informatics  
Security Technology Competence Centre  
Centre for Circuits, Components, Materials, Technologies and Equipment for  
Electrotechnic

#### *Centres of Excellence*

Nanoscience and Nanotechnology  
Materials for the Next Generation Electronics and Other Coming Technologies  
Environmental Technologies  
Advanced Control Technologies

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