



Jožef Stefan Institute (JSI)



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## Mission statement

The JSI's mission is to collect, create and disseminate knowledge at the highest level of natural and technical sciences for the well-being of Slovenian society and humanity in general. With the constant development of new knowledge, the JSI provides the best education to personnel as well as the research and development of technologies at the highest international level of excellence.

The mission of JSI is realized through:

- **a professional attitude to research at the cutting edge** of science at all levels;
  - **education** that is embedded in research and development; in doing so, the JSI cooperates closely with other institutions in Slovenia and around the world;
  - focusing **on new research topics**, which are frequently interdisciplinary;
  - **the transfer of technologies and exchange personnel** to industry;
  - **raising public awareness**, especially among young people, of the growing importance of science and technology;
  - **environmental and public-safety** services;
  - adopting flexible, goal-oriented **organizational structures** that can respond quickly to new challenges and offer the appropriate services.
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## Name of the Institute



Jožef Stefan: distinguished 19th century physicist, most famous for his work on the Stefan-Boltzmann law of black-body radiation

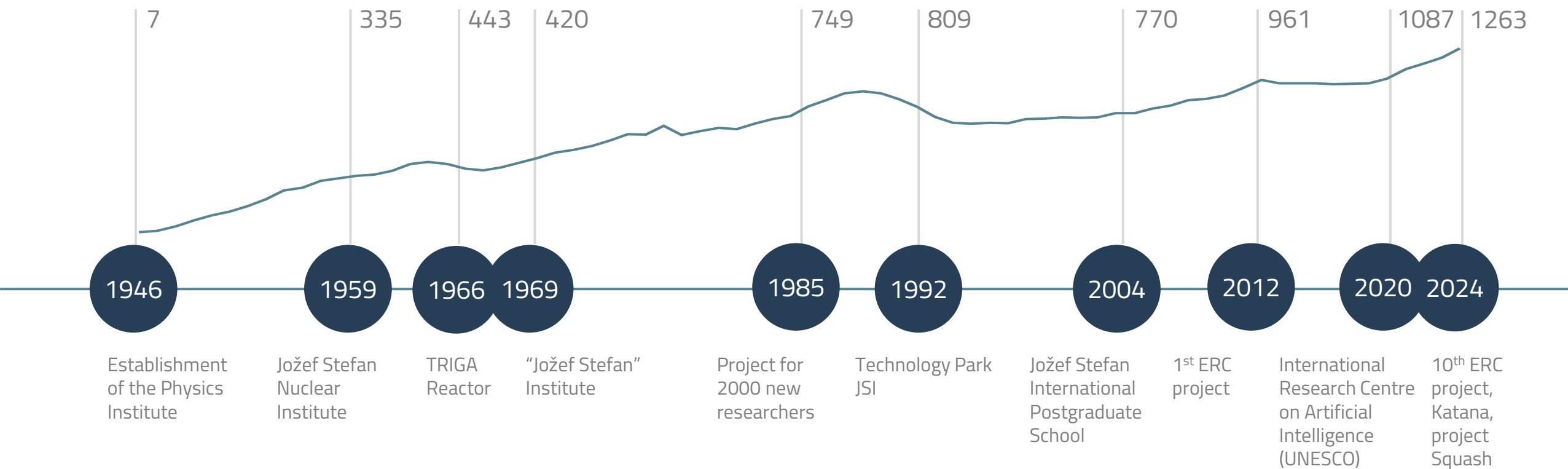
**Jožef Stefan**  
1835–1893

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# History

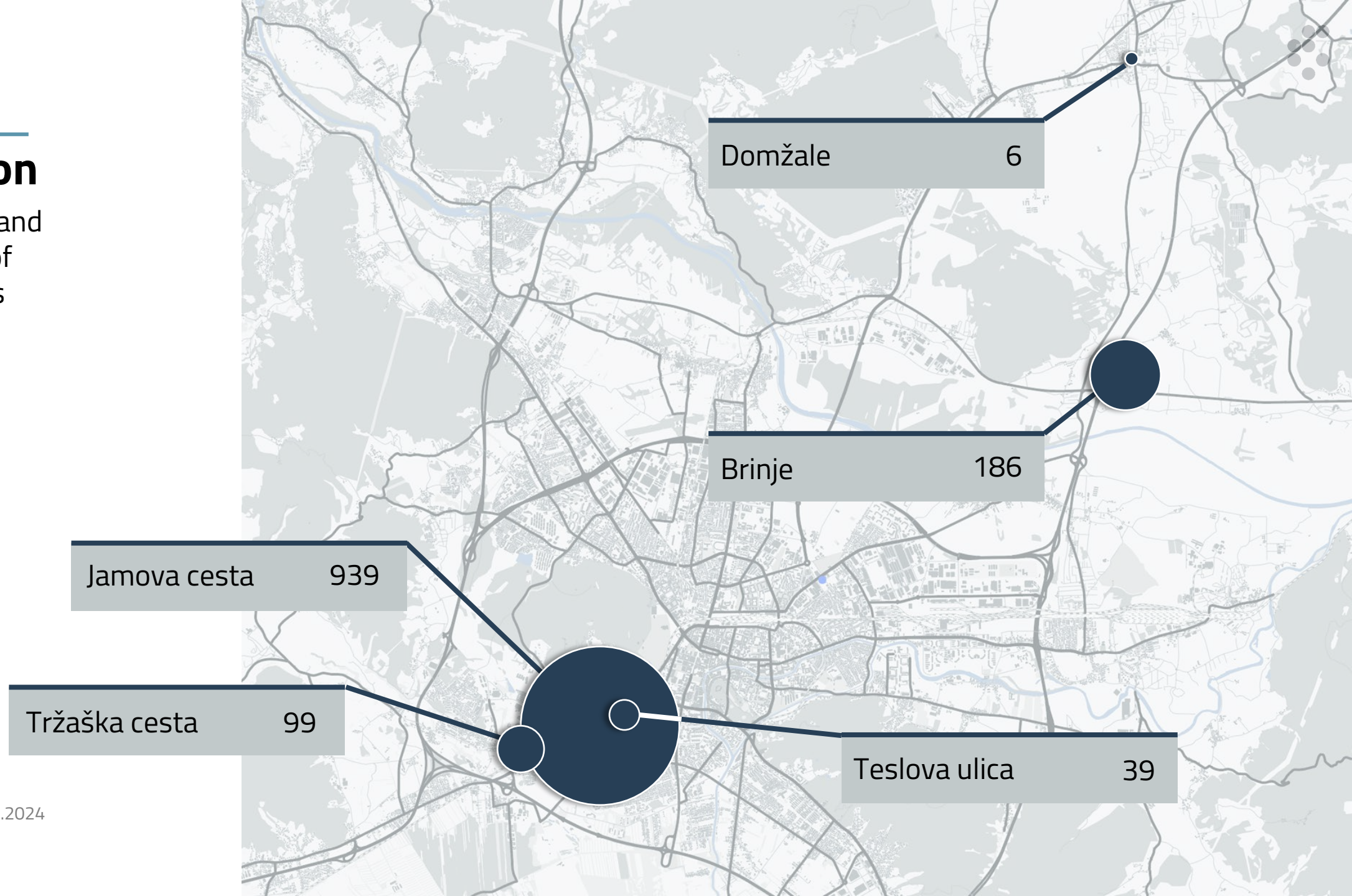
Institute milestones and growth in the number of employees





# Location

Locations and  
numbers of  
employees



Data as of 31.12.2024

# The Institute in numbers

**1263**

employees\*

**838**

researchers\*

**223**

faculty members  
lecturing at ->

**49**

various higher-  
education  
institutions\*\*

**835**

young  
researchers \* \* \*

**903**

doctoral theses\*\*\*

**1060+**

published articles\*\*

**60,751**

citations\*

**769**

projects\*\*

**13**

ERC projects

**124**

awards\*\*\*

**46**

programmes\*\*

**78,053**

€m of planned  
revenue\*

**2894**

media releases\*\*

**21,700+**

visitors\*\*

\*Data collected on 31.12.2024

\*\*Data are for 2024

\*\*\*Data for 2000-2024



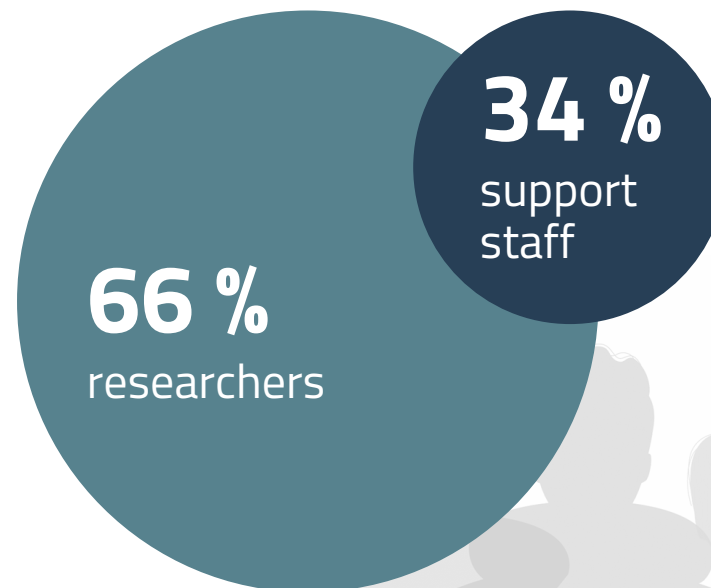
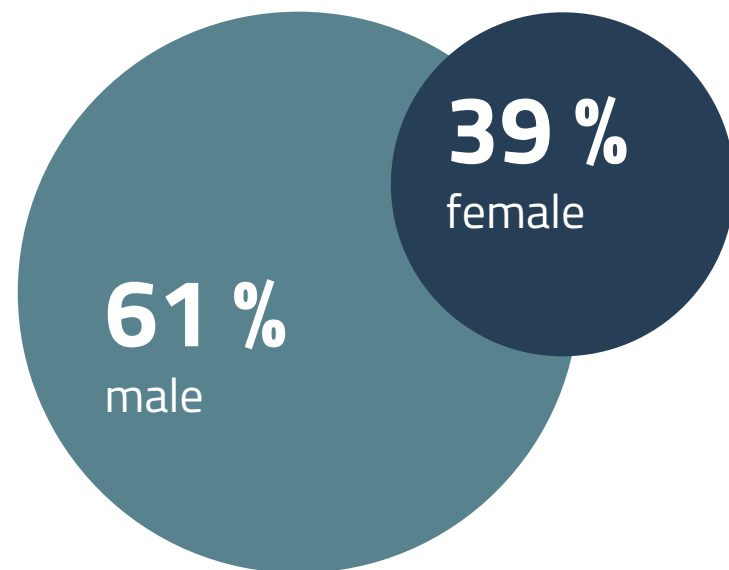
# Staff

Number of employees by gender and area of activity

Total

**1263**

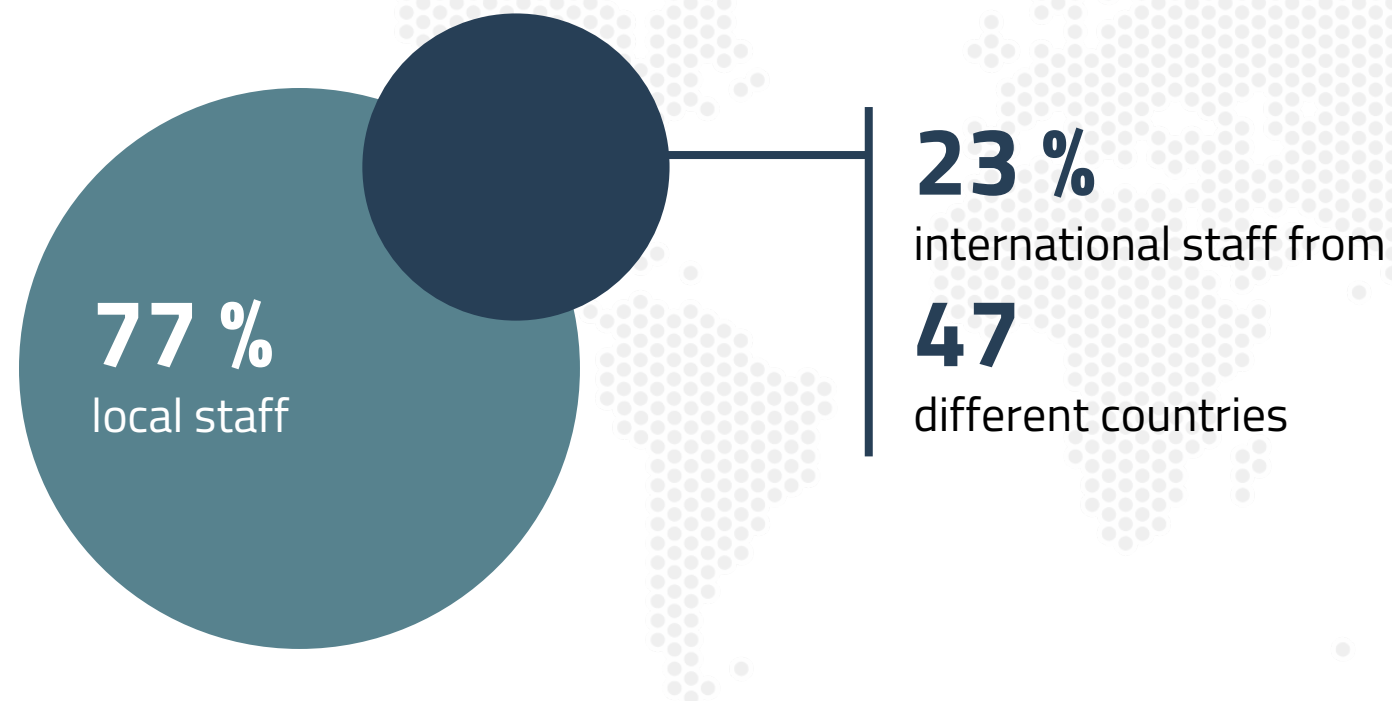
employees





# Staff

Number of researchers by country of origin



Total

**838**

researchers





# Main areas of research

JSI departments divided into areas



## Electronics and Information Technologies

- Automation, biocybernetics and robotics
- Systems and control
- Artificial intelligence
- Open systems and networks
- Communication systems
- Computer systems
- Knowledge technologies
- Intelligent systems

**8**  
depart-  
ments

## Physics, nuclear engineering and energy

- Theoretical physics
- Low and medium energy physics
- Thin films and surfaces
- Surface technology
- Solid State Physics
- Gas electronics
- Complex matter
- Reactor physics
- Experimental particle physics
- Reactor technology

**10**  
depart-  
ments

## Chemistry, biochemistry, materials and environment

- Biochemistry, molecular and structural biology
- Molecular and Biomedical Sciences
- Biotechnology
- Inorganic chemistry and technology
- Physical and organic chemistry
- Electronic ceramics
- Nanostructured materials
- Synthesis of materials
- Advanced materials
- Environmental sciences

**10**  
depart-  
ments



# Main areas of research

Number of researchers by scientific fields

(27 female researchers and 36 researchers are employed in centres and technical services)

Total

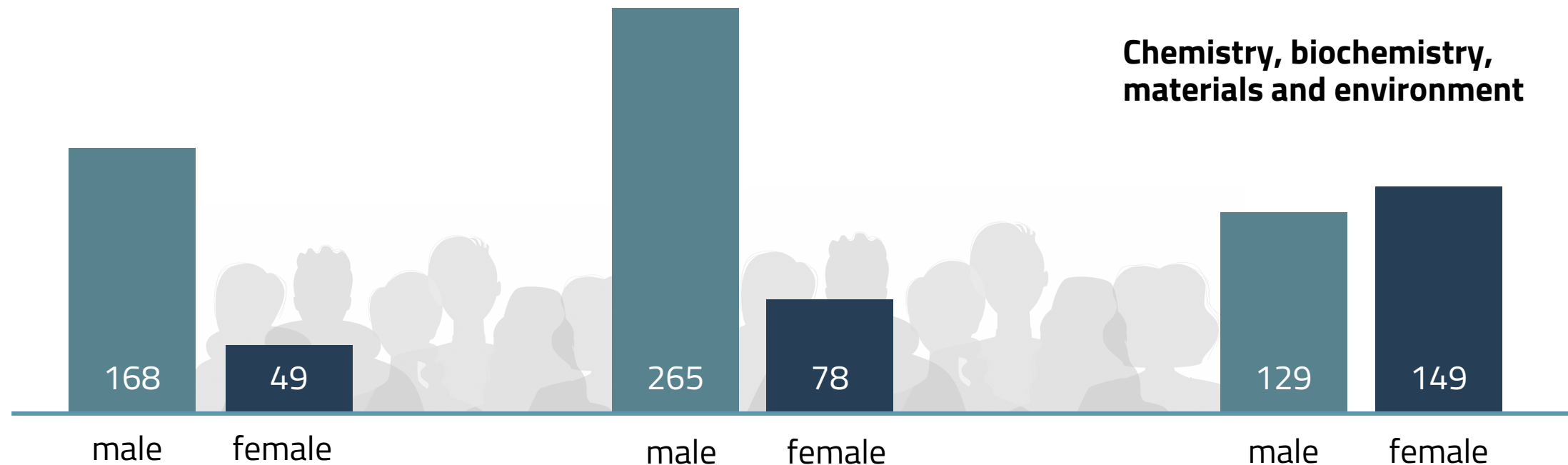
838

researchers

Electronics and Information Technologies

Physics, nuclear engineering and energy

Chemistry, biochemistry, materials and environment





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# Publication of JSI articles in top scientific journals

Elsevier CiteScore



Total

**1343**

publications

**69 %**

articles in  
the top 25% of  
scientific journals.

**40 %**

articles in  
the top 10% of  
scientific journals.

**17 %**

articles in  
the top 5% of  
scientific journals.

**3 %**

articles in  
the top 1% of  
scientific journals.



# Publication of JSI articles in top scientific journals

Web of Science



WEB OF SCIENCE



**60,751**

citations of all  
JSI articles

Data are for 2024



**649,667**

citations of all  
JSI articles

Data are for 2000–2024



**1069**

Number of published  
JSI articles

Data are for 2024

Total

**60,751**

citations

Total

**1069**

publications



# Projects

Number of all projects in 2024

Total

**769**

projects

**295**

projects financed by  
the national agency:  
**ARIS**

**160**

projects financed by  
different **European  
Union** schemes

**157**

**market projects:**  
domestic

**157**

**market projects:**  
international





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# The Institute and the European Research Council (ERC)

The JSI is proud of all its ERC project grantees

2012	D. Mihailović	ERC-2012-AdG	TRAJECTORY
2017	D. Mihailović	ERC-2017-PoC	Umem4QC
2019	M. Humar	ERC-2019-StG	Cell-Lasers
	P. Križan	ERC-2019-AdG	FAIME
	I. Mušević	ERC-2019-AdG	LOGOS
2020	M. Lozinšek	ERC-2020-StG	HiPeR-F
2022	P. Križan	ERC-2022-PoC	CherPET
	Z. Lenarčič	ERC-2022-StG	DrumS
2023	L. Vidmar	ERC-2023-CoG	Boundary
	D. Mihailović	ERC-2023-AdG	HIMMS
2024	Matjaž Humar	ERC-2024-POC	EdibleLasers
	Matjaž Humar	ERC-2024-CoG	SoftQuanta
	Andrii Tykhonov	ERC-2024-CoG	PeVGALAXY

Total

13

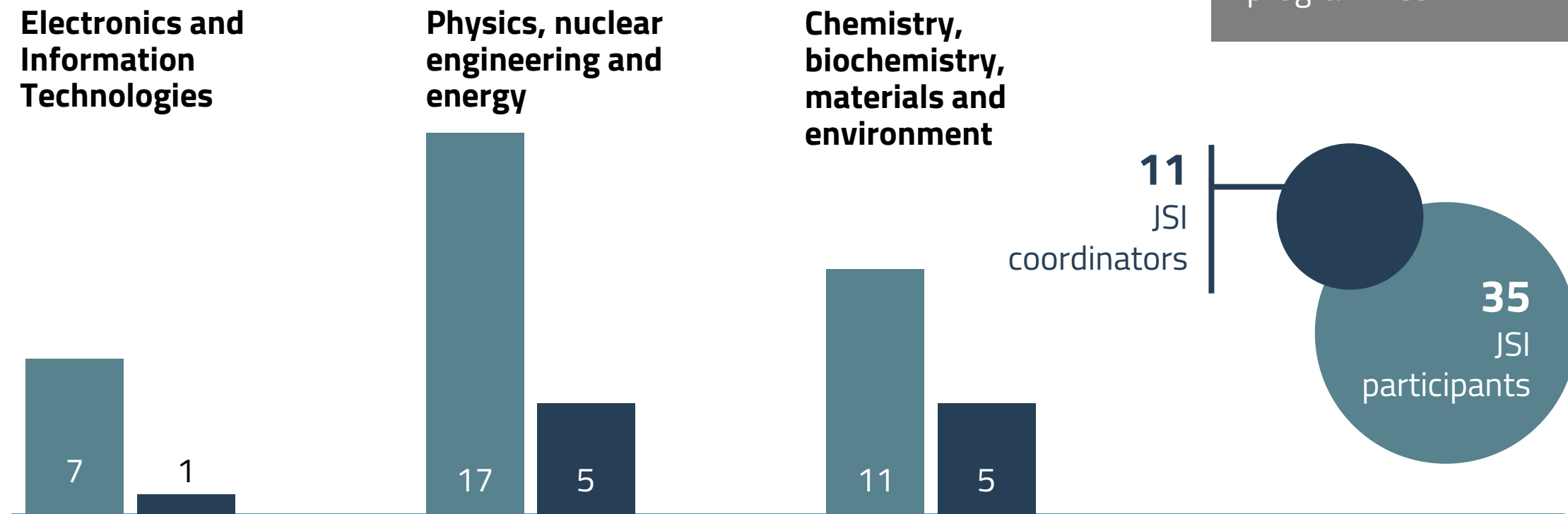
ERC projects





# Programmes

Number of programmes by  
policy area in 2024



Total  
**46**  
programmes

Data are for 2024



# Programme revenues

Revenues from programmes by topic in 2024

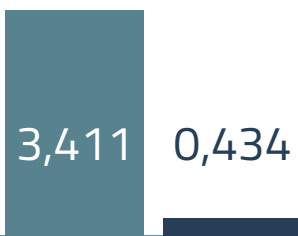


Total

21.256

€ m

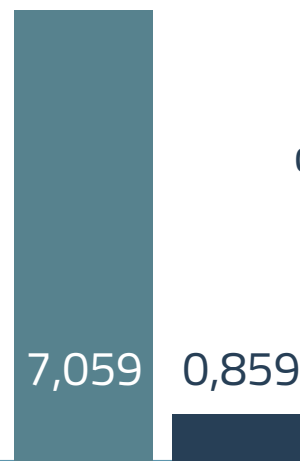
**Electronics and  
Information  
Technologies**



**Physics, nuclear  
engineering and  
energy**



**Chemistry,  
biochemistry,  
materials and  
environment**



1865

€ m

JSI

coordinator

19.391

€ m

IJS partners

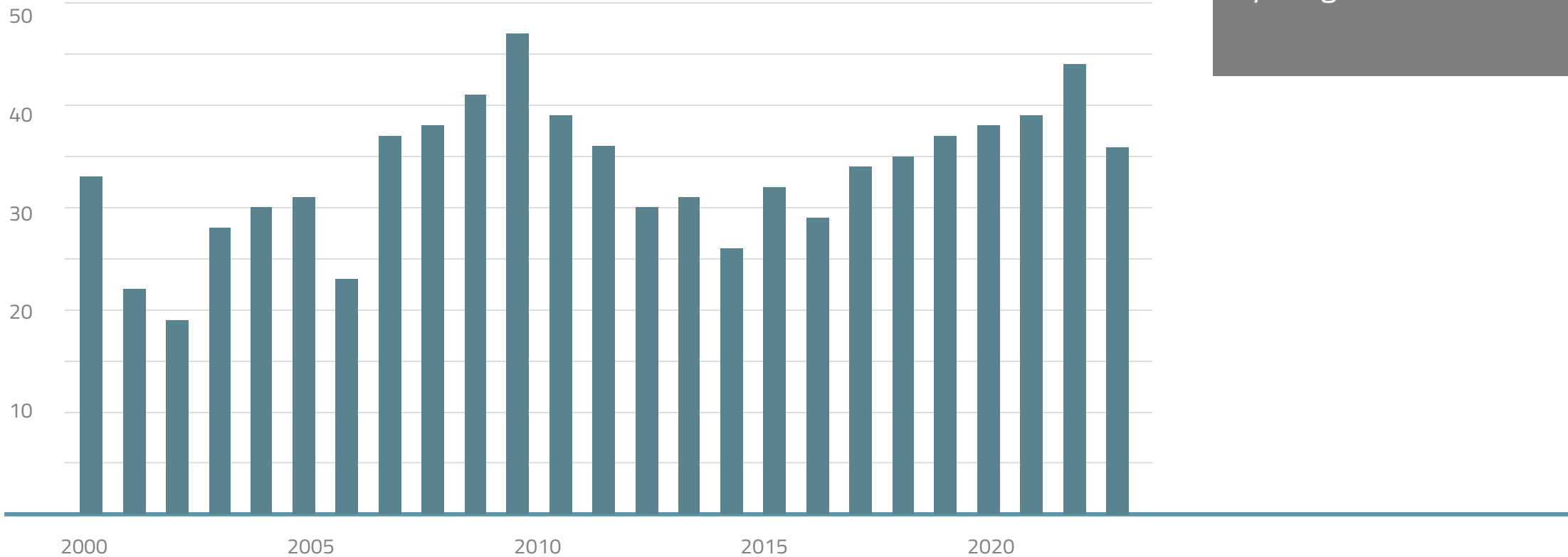
Data are for 2024



# Young researchers

Number of young researchers covered by ARRS funding in the period 2000–2024 by year

Total  
**835**  
young researchers



Data are for the period 2000–2024



# Doctoral theses

Number of doctorates with mentors from the JSI



Total

**903**

Doctoral theses

The data of the number of doctorates in the year with mentors from the JSI for the period 2000-2024





# Awards

Number of Zois, Puh Awards and Ambassadors of Science



Total

**124**

awards





# Comparison with the rest of the world

Jožef Stefan Institute (JSI) // Max Planck Institute (MPS) // French National Centre for Scientific Research (CNRS)



## Employees

		population	Number of employees	Number of employees as % of population
JSI	Slovenia	2.12 m	1,263	0.06 %
MPS	Germany	84.55 m	24,650	0.03 %
CNRS	France	66.55 m	33,000	0.05 %

## Revenue

		Annual revenue	Annual income per employee
JSI	Slovenia	65 € m	53,400 €
MPS	Germany	2,300 € m	93,300 €
CNRS	France	4,000 € m	121,200 €

Data are for period 2022-2024



# Public cooperation

Number of visitors to JSI events organised for different groups and number of visitors to the Nuclear Technology Training Centre

Total of more than  
**21,700+**  
visitors

## Events

Colloquia	1,200
Gallery	9,450
School visits	1,070
Days of Jožef Stefan	1,000
Open Day	2,000
<b>Nuclear Technology Training Centre</b>	<b>7,020</b>

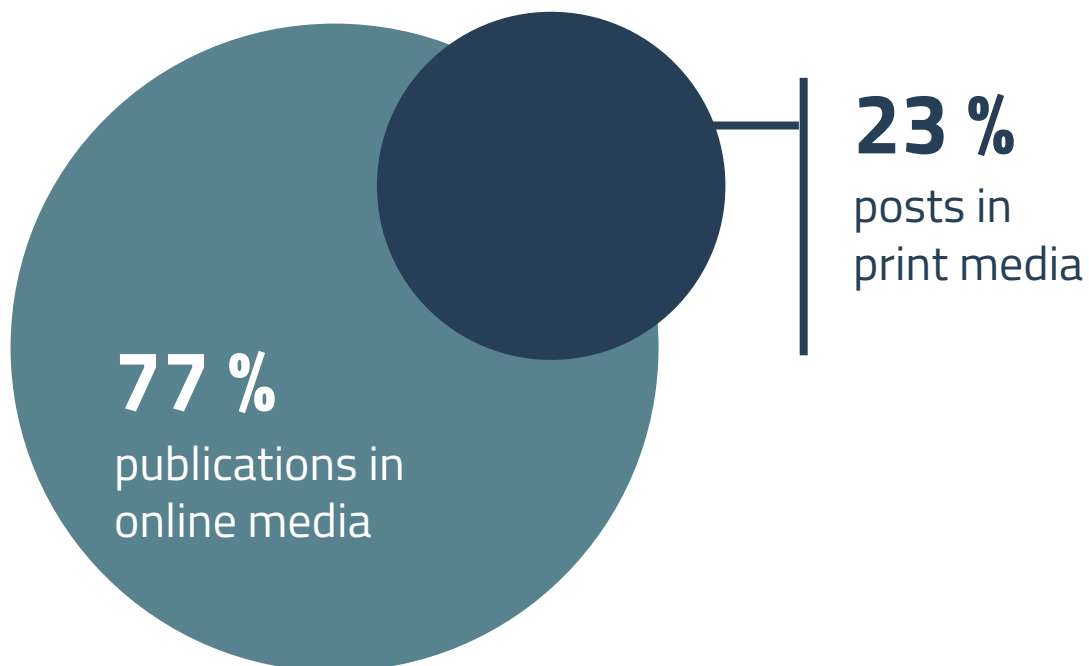


Data are for 2024



# Appearances in the media

Incidences of the Jožef Stefan Institute and the Director Prof. Dr. Boštjan Zalar appearing in print and online media



**Media** that wrote the most on these topics:

1. [novice.najdi.si](#)
2. [sta.si](#)
3. [Delo](#)
4. [Megafon.si](#)
5. [rtvslo.si](#)

**Authors** who wrote the most on these topics:

1. [STA](#)
2. [Saša Senica](#)
3. [Marko Medvešček](#)
4. [Branko Janjič](#)
5. [G. C.](#)

Total

**2811**

media releases

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# Thank you for your attention

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1000 Ljubljana  
Slovenija

<https://www.ijs.si/>