Jožef Stefan Institute (JSI)

Knowledge in motion, a future in the making

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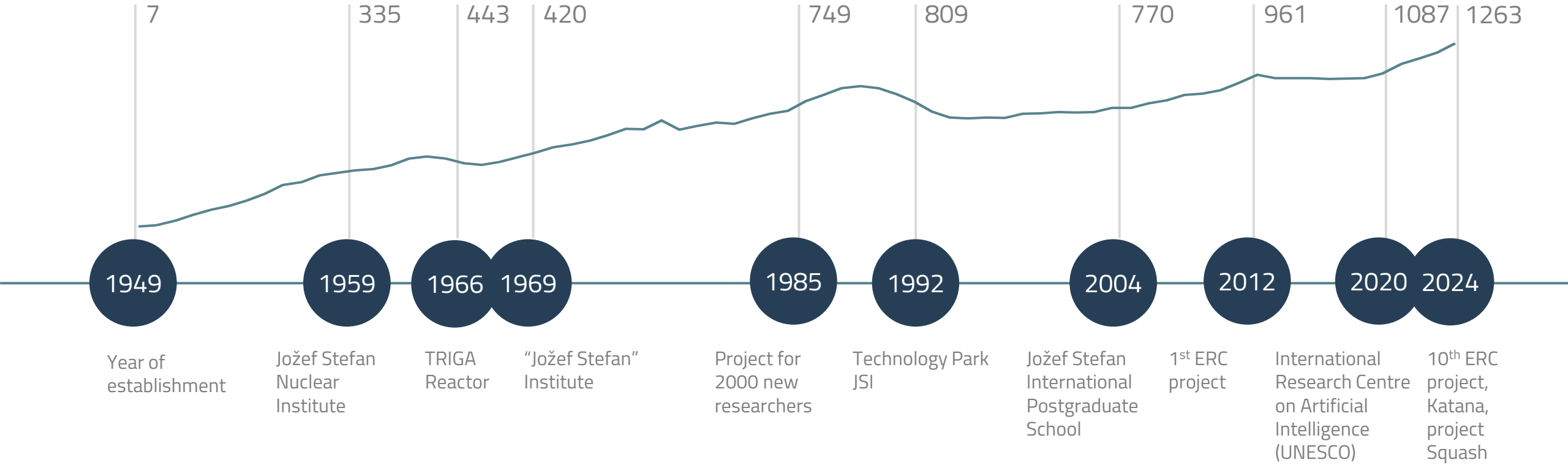
Name of the Institute

The Jožef Stefan Institute is named after Jožef Stefan, a notable physicist and the only Slovenian to have a physical law named in his honor – the Stefan–Boltzmann law of blackbody radiation.

Jožef Stefan
1835–1893

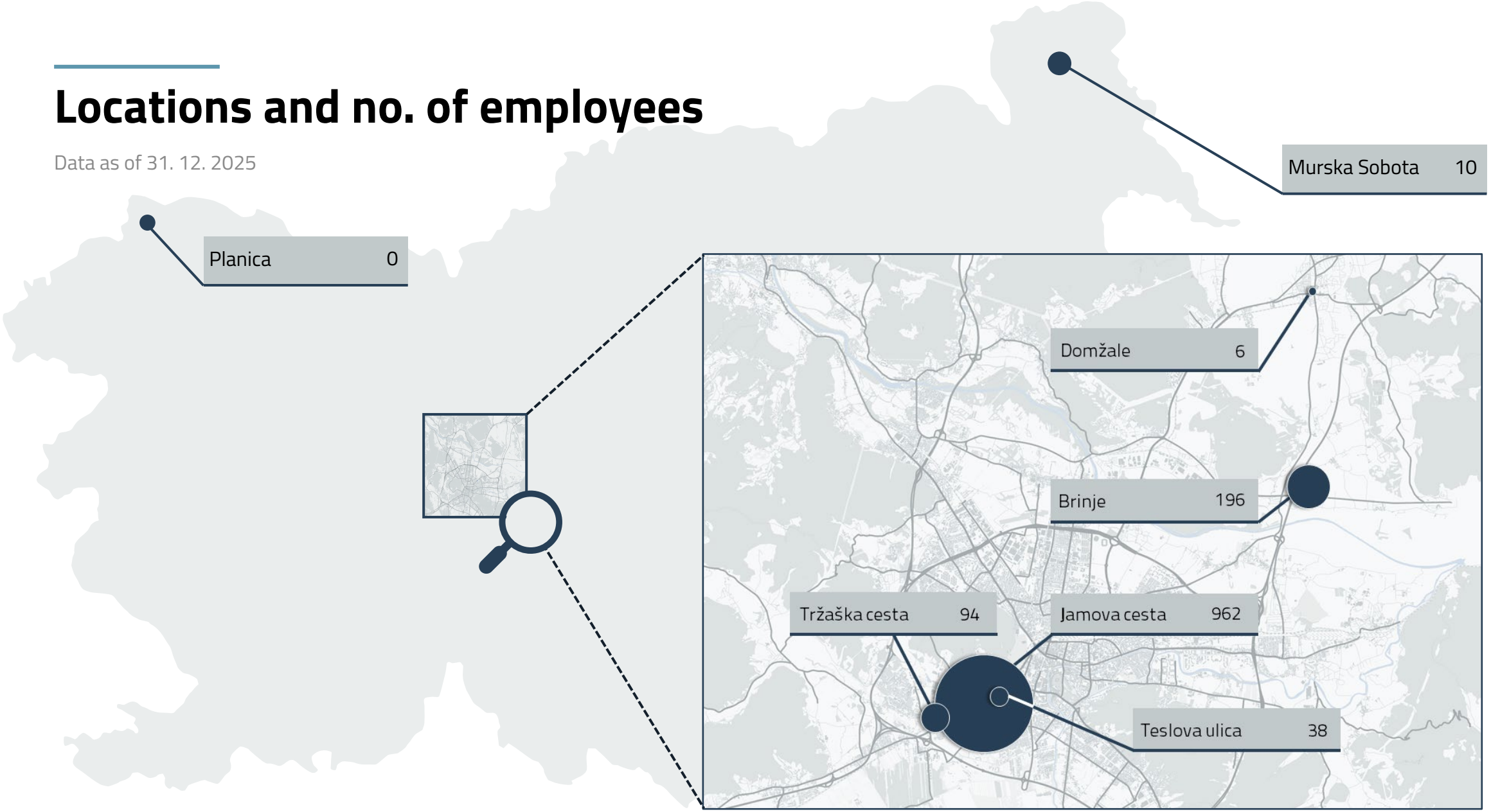
History

Institute milestones and growth in the number of employees



Locations and no. of employees

Data as of 31. 12. 2025



Mission

SCIENCE FOR SUSTAINABLE PROGRESS

We generate and consolidate state-of-the-art knowledge in natural sciences and technical sciences.

By disseminating and transferring knowledge, we help drive society's sustainable development, boost economic progress, foster talent, and contribute to a better overall quality of life. Our outstanding achievements in science strengthen Slovenia's global recognition.

MISSION

Values

SCIENTIFIC CONTEXT

Research excellence
Always better

Independence and integrity
Trusted science

SOCIAL CONTEX

Openness and relevance
Knowledge propelling the right solutions

Sustainability mindset
Good for people, good for the planet

JSI COMMUNITY

The freedom of creation
Curiosity drives new knowledge

The power of collaboration
A fusion of ideas for accelerated progress

Vision

GUIDING VISION

CUTTING-EDGE SCIENCE AT THE INTERSECTION OF DISCOVERY AND INNOVATION

We are a global hub for interdisciplinary research and breakthrough technologies in natural sciences and technical sciences.

Guided by our curiosity, openness, using advanced research approaches, and by applying science to economic and social challenges, we co-create sustainable solutions. We contribute to a resilient future that is rich in new knowledge and talent, healthy for people, in harmony with nature, and safe for all.

VISION

SCIENTIFIC CONTEX

Global hub for cutting-edge sciences

We co-create groundbreaking solutions in the fields of clean energy, advanced materials, quantum and smart systems, and artificial intelligence, with a special emphasis on their impact on the environment, health, and food.

Our ambition is to become a global hub for interdisciplinary research and breakthrough technologies, connecting global networks and promoting the sustainable progress of society.

SOCIAL CONTEX

Open, reliable, unifying

We are a reliable partner to educational institutions, the business community, decision-makers, and the general public.

We actively contribute to sustainable development by addressing key social challenges, fostering new generations of scientists, and transferring knowledge from global networks to Slovenia. We engage the public in dialogue about the future, help shape social orientations, and strengthen scientific culture and trust in science and innovation.

ORGANIZATION, CULTURE, AND STAFF

Attractive interdisciplinary community

We are creating a strong identity of an interdisciplinary, multicultural, and diverse community of scientific departments, centres, and support units that act in a harmonized, agile, and transparent manner.

Our vision is to create a contemporary, creative, inclusive, and safe environment that promotes collaboration, enables cutting-edge research and development opportunities for all employees. Together we create a better JSI every day, making it a place where employees enjoy coming to work and that attracts the best young talents from Slovenia and the world.

The Institute in numbers

Data collected on 31. 12. 2025

1,306
employees

906
researchers

96
M€ of realised revenue

Data for 2025

250
faculty members lecturing at ->

49
various higher-education institutions

1,234
published articles

46
research programmes

705
projects

66,404
citations

21,600+
visitors

3,182
media releases

Data for 2000–2025

877
young researchers

126
awards

924
doctoral theses

270
invention disclosures

336
patent applications

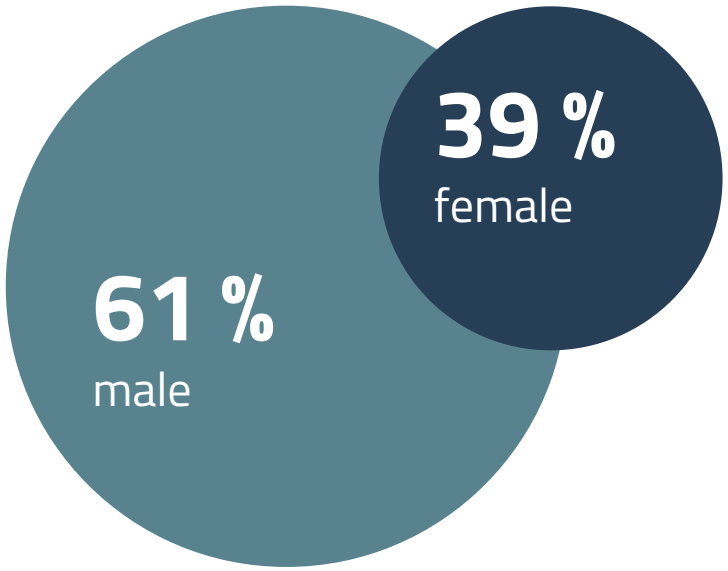
Since the establishment of the ERC

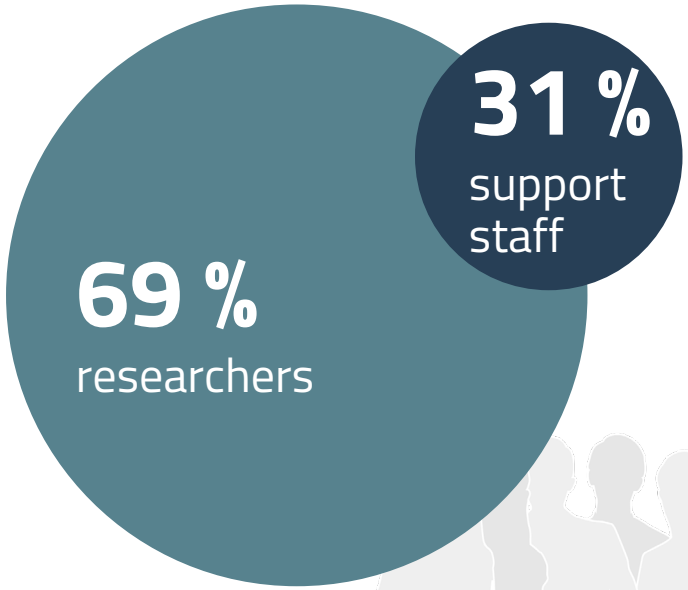
14
ERC projects

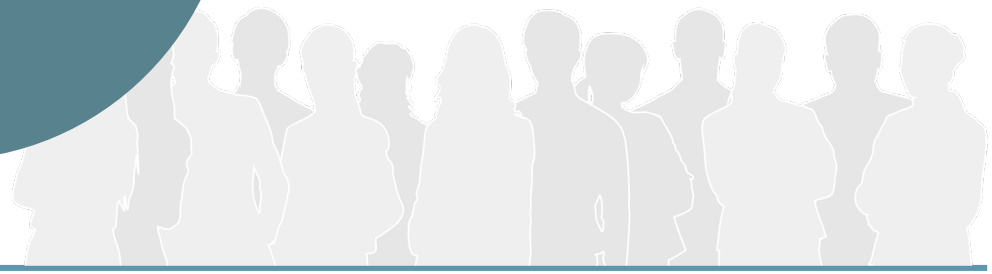
Staff

Number of employees by gender and area of activity

Total
1,306
employees





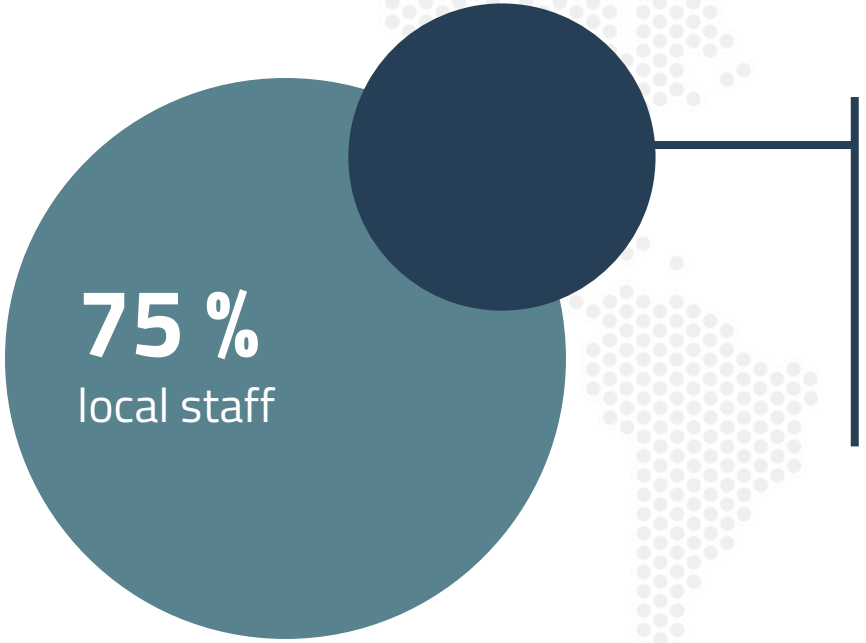


Data collected on 31.12.2025

Staff

Number of researchers by country of origin

Total
906
researchers



25 %
international staff from
60
different countries

Data collected on 31.12.2025

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 departments

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 departments

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
- Extreme Conditions Chemistry Laboratory

11 departments

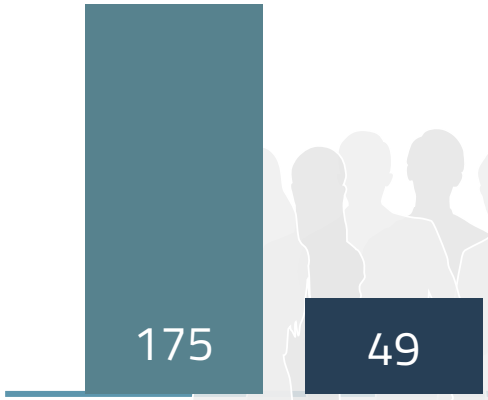
Main areas of research

Number of researchers by scientific fields

(14 female researchers and 30 researchers are employed in centres and technical services)

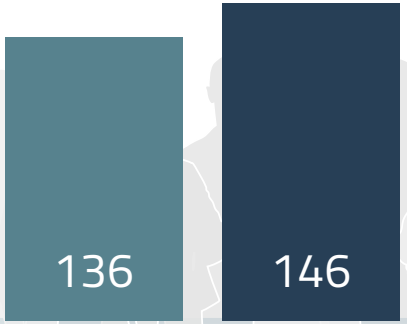
Total
906
researchers

Electronics and Information Technologies



Physics, nuclear engineering and energy

Chemistry, biochemistry, materials and environment



Data collected on 31. 12. 2015

Publication of JSI articles in top scientific journals

Elsevier CiteScore

Total
1,234
publications

70 %
articles in the top 25% of scientific journals.

39 %
articles in the top 10% of scientific journals.

19 %
articles in the top 5% of scientific journals.

4 %
articles in the top 1% of scientific journals.

Data for 2025, data acquisition date: 19. 2. 2026, source: SciVal

Publication of JSI articles in top scientific journals

Web of Science

Total
66,404
citations

Total
1,068
publications

66,404

citations of all
JSI articles

Data for 2025

716,071

citations of all
JSI articles

Data for 2000–2025

1,068

Number of published
JSI articles

Data for 2025

Projects

Number of all projects in 2025

Total
705
projects

233

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

159

projects financed by different **European Union** schemes

160

market projects: domestic

153

market projects: international

The Institute and the European Research Council (ERC)

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. Muševič	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	**M. Humar**	ERC-2024-POC	EdibleLasers
	M. Humar	ERC-2024-CoG	SoftQuanta
	A. Tykhonov	ERC-2024-CoG	PeVGALAXY
2025	**D. Golež**	ERC-2025-CoG	META-QMS

Total
14
ERC projects

The JSI is proud of all its ERC project grantees

Research programmes

Number of programmes by policy area in 2025

Javna agencija za znanstvenoraziskovalno in inovacijsko dejavnost Republike Slovenije

Total
46
research programmes

Electronics and Information Technologies

Physics, nuclear engineering and energy

Chemistry, biochemistry, materials and environment

11
JSI participant

35
JSI coordinators

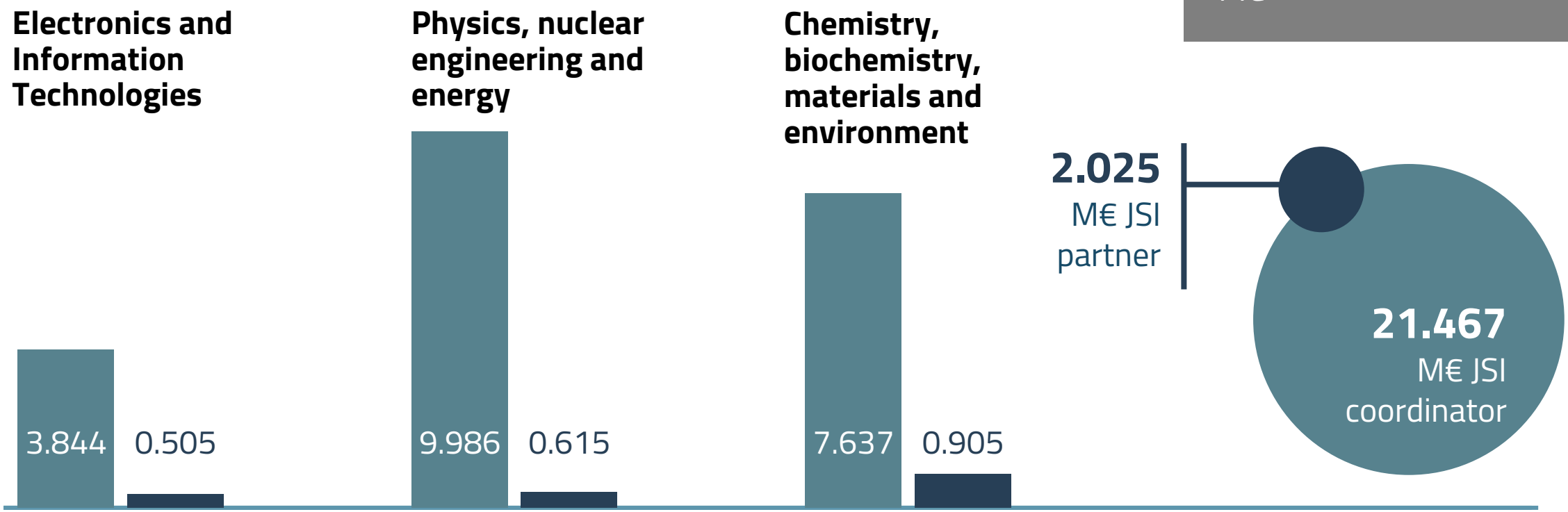
Data for 2025

Programme revenues

Revenues from programmes
by topic in 2025

Javna agencija za znanstvenoraziskovalno in inovacijsko dejavnost Republike Slovenije

Total
23.492
M€

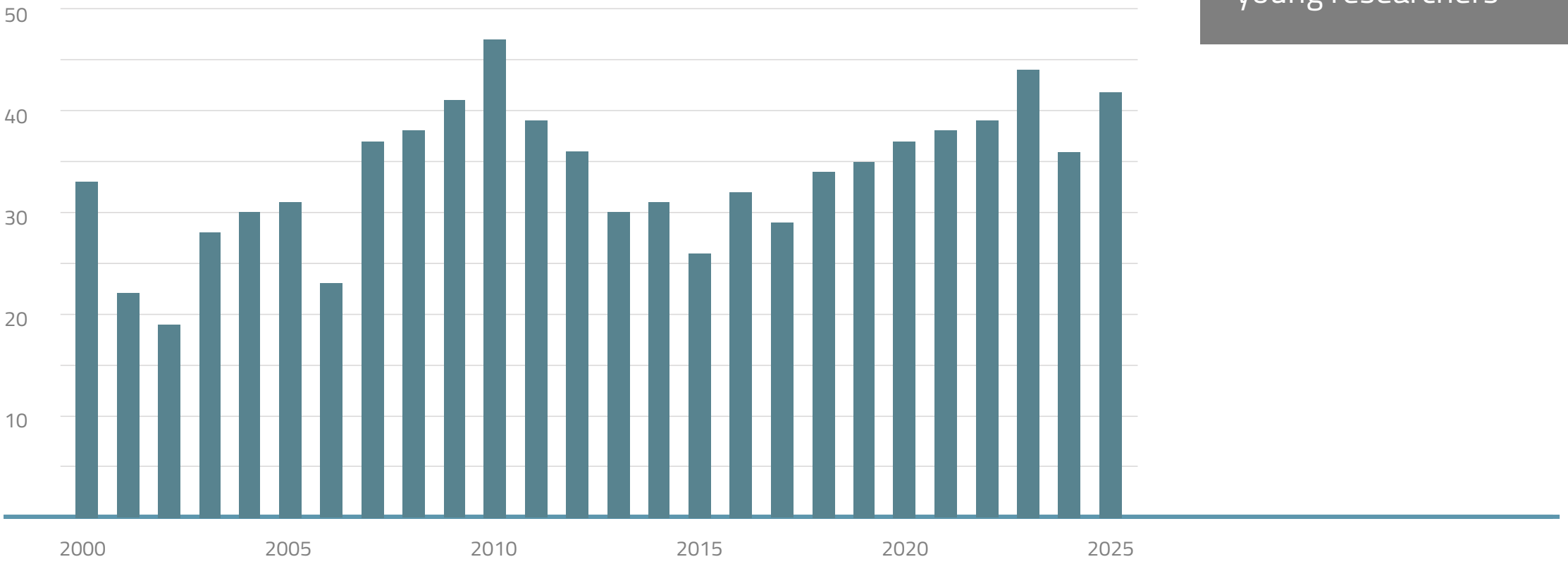


Data for 2025

Young researchers

Number of young researchers covered by ARIS funding in the period 2000–2025 by year

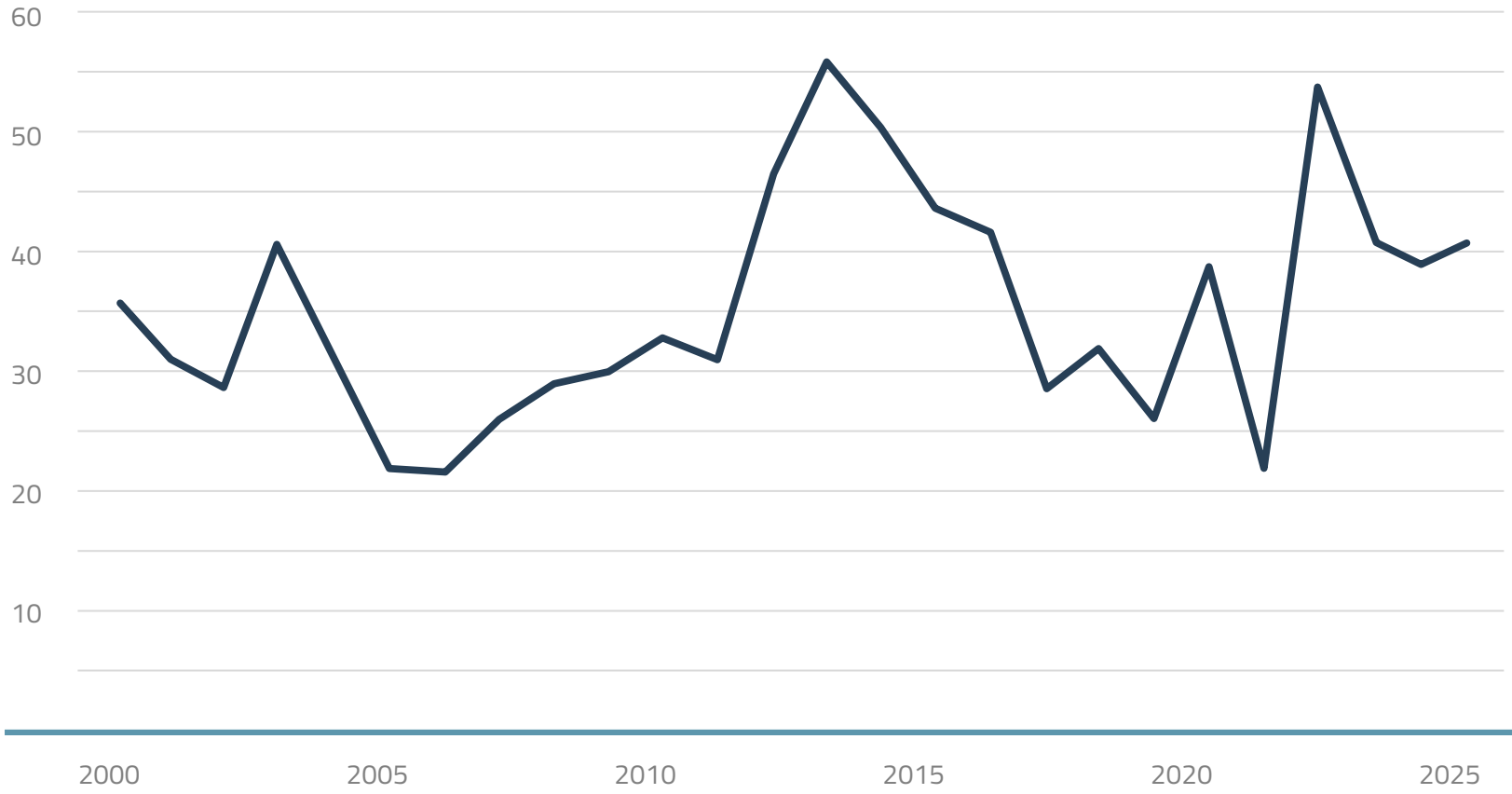
Total
877
young researchers



Data for the period 2000–2025

Doctoral theses

Number of doctorates with mentors from the JSI



Total

924

Doctoral theses

The data of the number of doctorates in the year with mentors from the JSI for the period 2000-2025

Awards

Number of Zois, Puh Awards and Ambassadors of Science

50
Zois prizes

39
Zois awards

5
Puh awards

27
Puh prizes

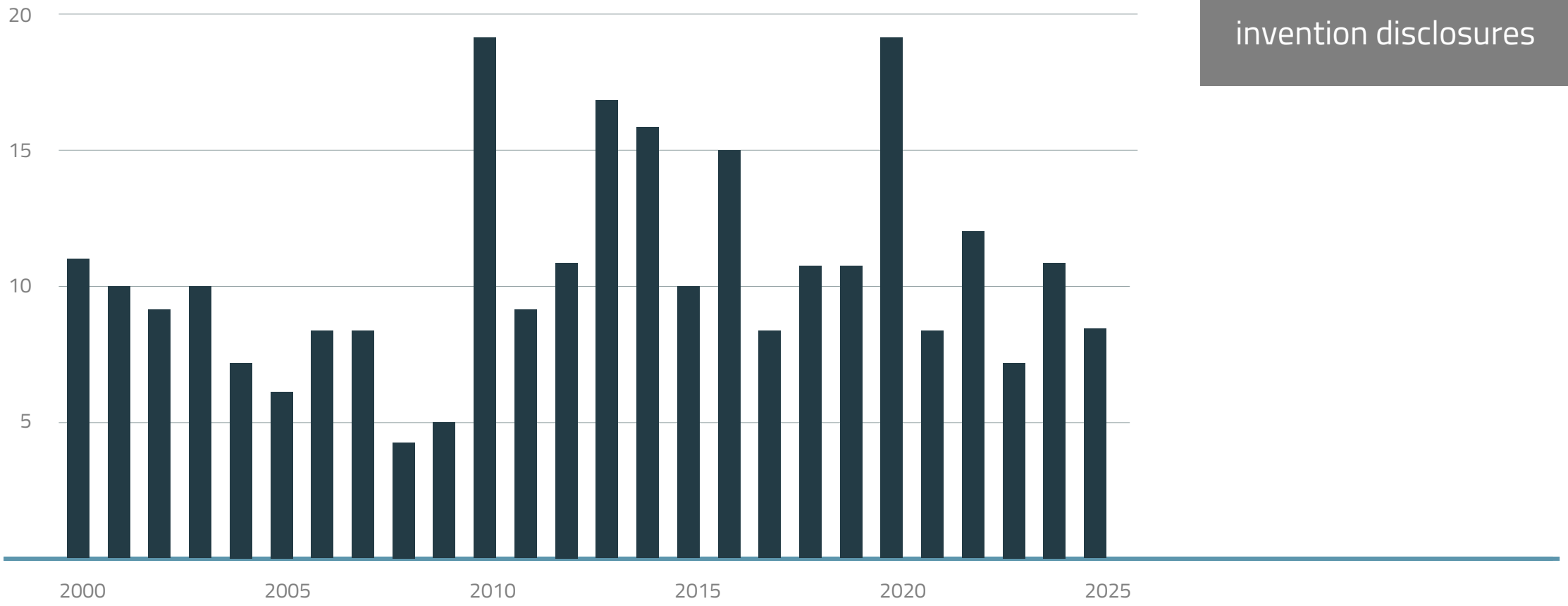
5
Ambassadors of science

Total
126
awards

Data for the period 2000–2025

Inventions

Number of invention disclosures



Total

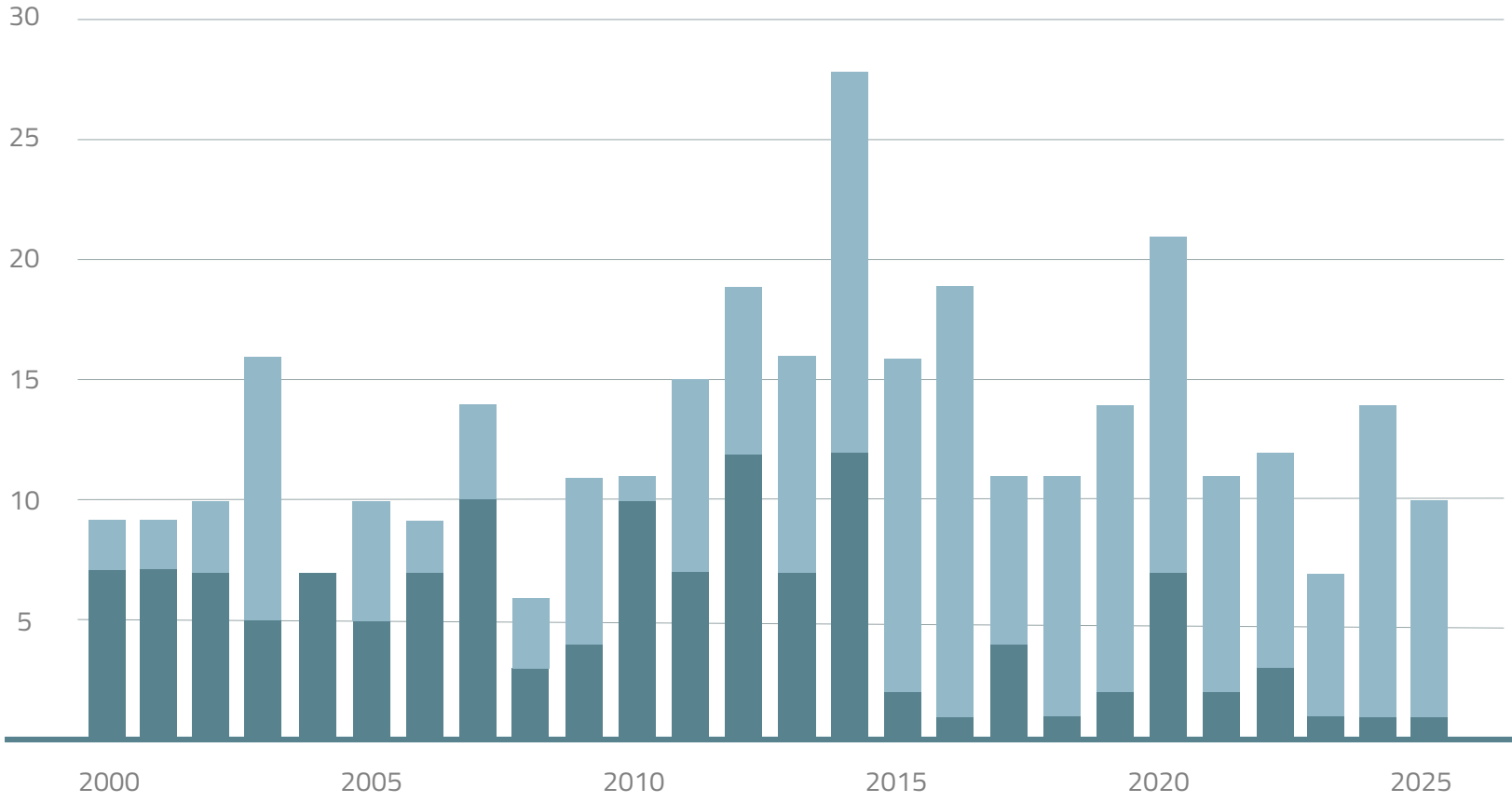
270

invention disclosures

Data for the period 2000–2025

Patents

Number of patent applications



Total
336
patent applications

135
SLO

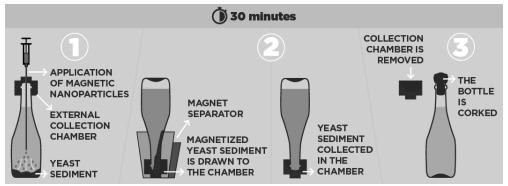
201
Abroad

Data for the period 2000–2025

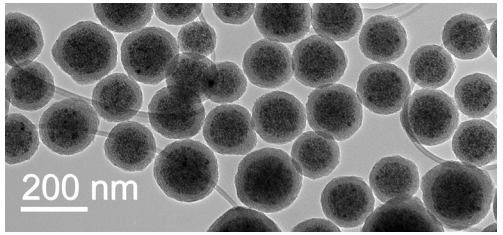
JSI's selected spin-outs

Plasmadis
Plasma reactor optimization by Laser Optic Catalytic Sensor (LOCS)
http://www.plasmadis.com/

InoVine
Rapid separation of yeast sediment from sparkling wine.
http://www.ino-vine.com/

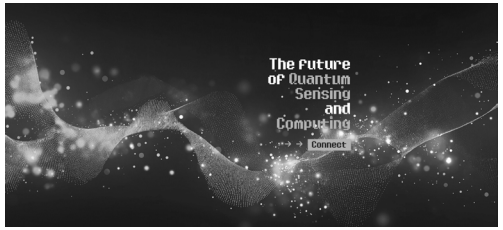


Nanos Scientificae
Nanotechnology solutions based on magnetic nanoparticle clusters – magnetic nanobeads – iNANOvative™ platform.
http://www.nanos-sci.com/



Infinite
Toxicity testing of materialsNovel sensorial cellular devices for personal diagnostics. Science-based animal alternatives.
http://infinite-biotech.com/

Atom Quantum Labs
Designing cold neutral atoms Quantum Computers.
https://atomql.com/



Particulars
Transient Current Technique (TCT) apparatus for studies of various semiconductor devices and materials.
http://particulars.si/

FlexHex
Robotic hexapods for the automotive industry
http://flexhex-robot.com/

Genuine Technologies
Synthetic bioceramic powder-like material based on calcium tri-silicate with high bioactivity.
https://www.gen-tech.si/

Comparison with the rest of the world

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

Employees

		population	Number of employees	Number of employees as % of population
JSI	Slovenia	2.13 milion	1,306	0.06 %
MPG	Germany	84.08 milion	26,000	0.03 %
CNRS	France	69.08 milion	35,000	0.05 %

Revenue

		Annual revenue	Annual income per employee
JSI	Slovenia	96 M€	73,439 €
MPG	Germany	2,698 M€	103,769 €
CNRS	France	3,974 M€	113,543 €

Data for 2025

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

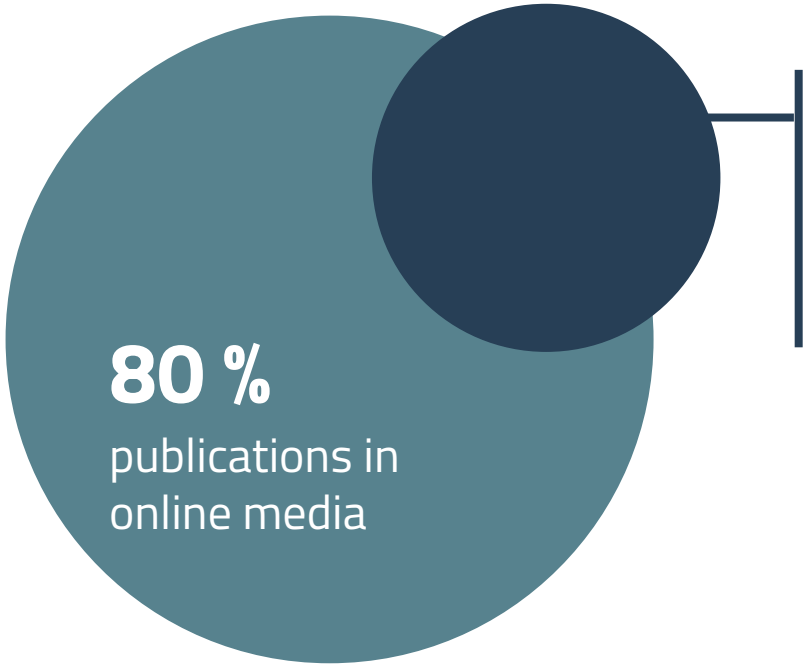
21,600+

visitors

Events	
Colloquia	**1,200**
Gallery	**9,500**
School visits	**1,010**
Days of Jožef Stefan	**1,000**
Open Day	**2,000**
Nuclear Technology Training Centre	**6,940**

Appearances in the media

Incidences of the Jožef Stefan Institute and the director appearing in print and online media



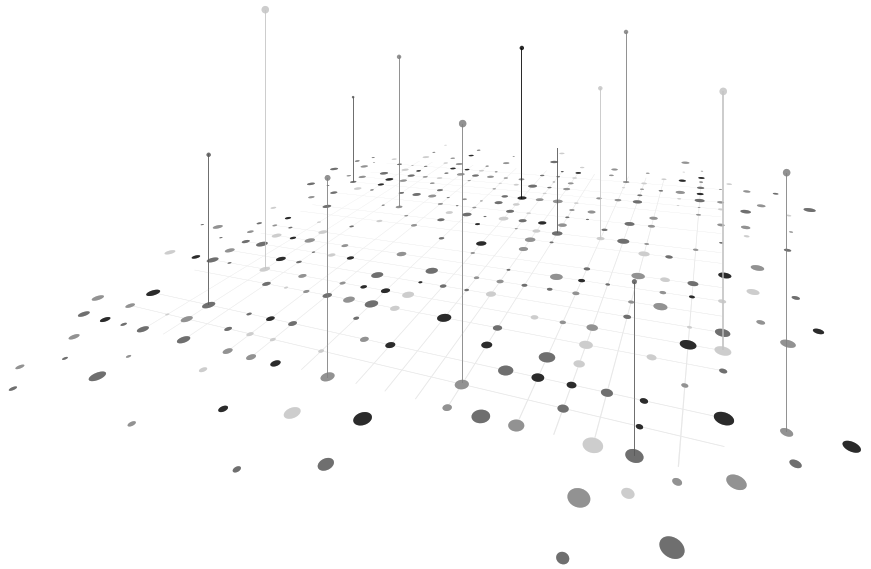
Total
3,182
media releases

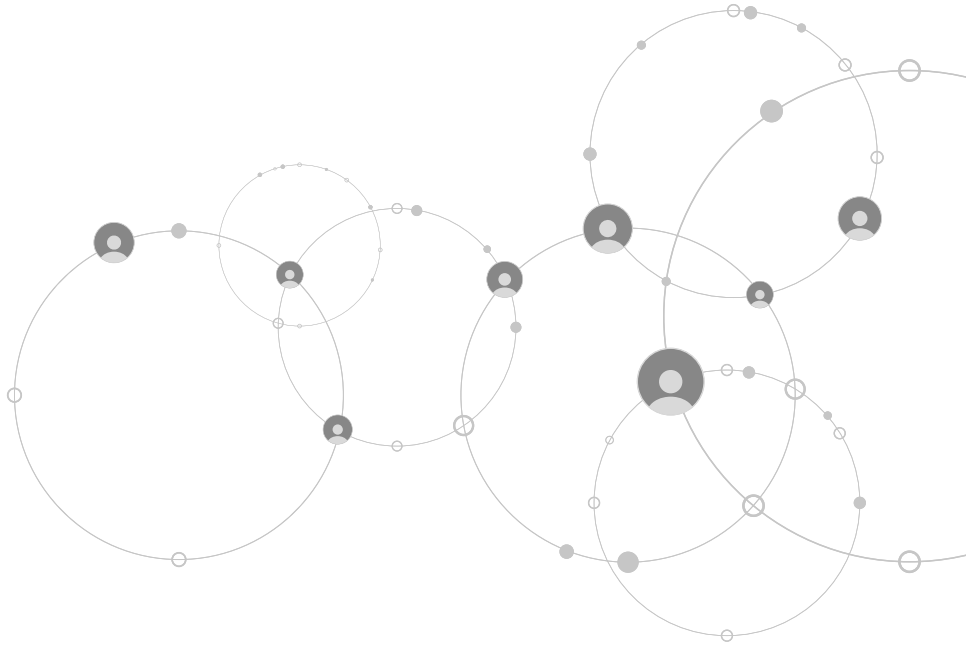
Media that wrote the most on these topics:

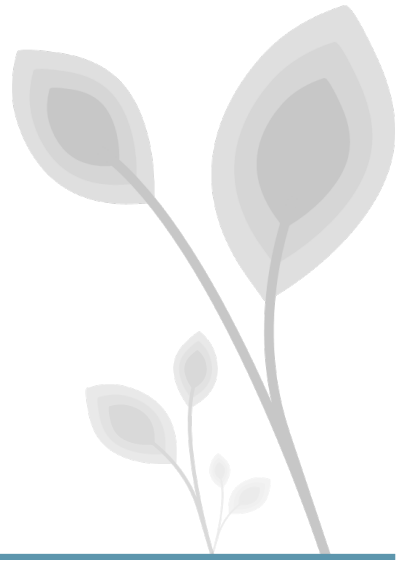
1. **gorenjskiglas.si**
2. **rtvslo.si**
3. **sta.si**
4. **telex.si**
5. **Delo**

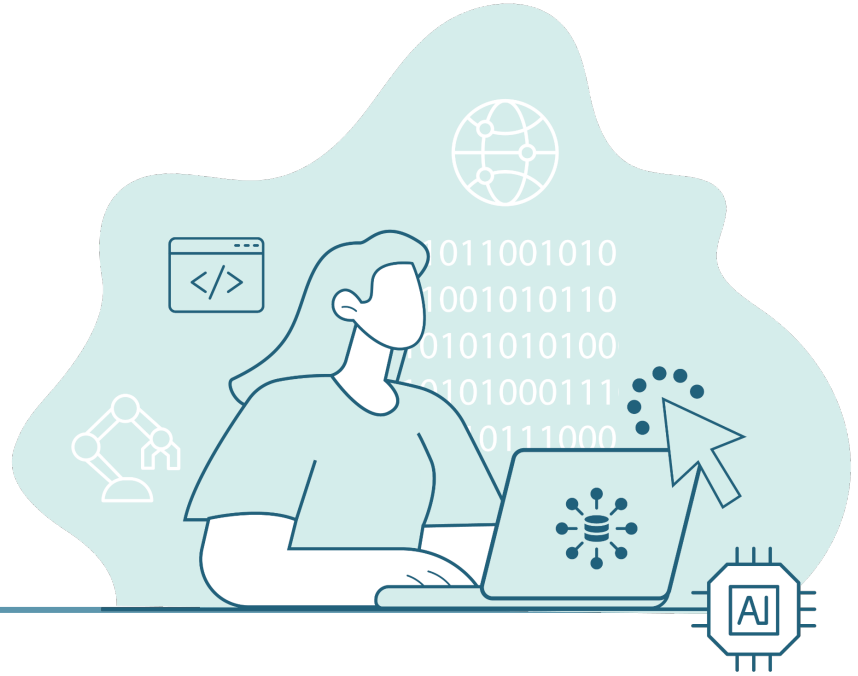
Authors who wrote the most on these topics:

1. **STA**
2. **Saša Senica**
3. **S. S.**
4. **Nina Slaček**
5. **A. I.**





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Thank you for your attention

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https://www.ijs.si/