



**JOŽEF STEFAN INTERNATIONAL POSTGRADUATE SCHOOL**  
**in cooperation with JOŽEF STEFAN INSTITUTE,**  
**Jamova 39, Ljubljana**  
**announces a call for enrolment in the 2022/2023 academic year:**

**ENROLMENT IN MASTER AND DOCTORAL DEGREE POSTGRADUATE STUDY PROGRAMMES:**

- 1. NANOSCIENCES AND NANOTECHNOLOGIES**
- 2. INFORMATION AND COMMUNICATION TECHNOLOGIES**
- 3. ECOTECHNOLOGIES**
- 4. SENSOR TECHNOLOGIES\***

\*Applications for enrolment in the Sensor Technologies programme are only available for doctoral studies.

**Open Day**

The dates of the Open Days will be announced on the IPS website in the news section. We will gladly send you any further information via e-mail ([info@mps.si](mailto:info@mps.si)).

**Application Deadlines**

Candidates for enrolment in postgraduate study programmes can apply in 6 application deadlines:

**1st Application Deadline:** From 1 May to 31 May 2021.

**2nd Application Deadline:** From 1 June to 30 June 2021.

**3rd Application Deadline:** From 1 July to 31 August 2021.

**4th Application Deadline:** From 1 September to 15 September 2021.

**\*5th Application Deadline:** From 16 September to 30 September 2021.

*\*The final deadline applies to candidates who:*

- *have not completed their previous studies by 15 September, or*
- *have not acquired funding for their studies, or*
- *have not found a suitable supervisor, or*
- *could not apply for enrolment before due to maternity leave or other long-term sick leave, as demonstrated in a corresponding certificate.*

**Number of Positions for Full-Time Studies**

Enrolment in doctoral degree study programmes for citizens of the Republic of Slovenia and the European Union: 25 positions are available per each study programme in each year of study.

Enrolment in master degree study programmes for citizens of the Republic of Slovenia and the European Union: 15 positions are available per each study programme in each year of study.

For all other candidates 15 positions are available per each study programme in each year of study. Parallel studies, change of study programme and other transitions are subject to the same rules as they apply for the first-time enrolment.

For Slovene without Slovenian citizenship 15 positions are available per each study programme in each year of study. Parallel studies, change of study programme and other transitions are subject to the same rules as they apply for the first-time enrolment.

**Applications for Enrolment**

The candidates submit their application for enrolment electronically through the eVŠ web portal which can be accessed through: <https://portal.evš.gov.si/prijava/?lang=en>.



The application shall be considered as **submitted on time** if it was **filled out** and **submitted** together with all mandatory attachments to the eVŠ by the end of the application deadline.

### **Mandatory Attachments to the Application (Submitted Electronically to eVŠ):**

- Diploma or degree certificate of the highest acquired education,
- Application for recognition of education together with requested attachments (if the diploma was obtained outside of Slovenia): <https://e-uprava.gov.si/download/vloge/dokumenti/14831/file-content>,
- Diploma supplement or transcript of records with the calculated average grade (from previous studies),
- Short CV,
- Motivation letter for studying at IPS with a proposal of the desired research field (1 page),
- Supervisor's approval of the selected courses and the potential co-supervisor:  
[https://www.mps.si/dokumenti/Soglasje\\_mentorja\\_ANG.docx](https://www.mps.si/dokumenti/Soglasje_mentorja_ANG.docx),
- A copy of identity document.

### **Doctoral Studies Enrolment Requirements:**

Students eligible to apply for enrolment in doctoral study programmes have graduated from:

- a 2nd cycle study programme,
- a uniform master's degree study programme if evaluated with 300 ECTS,
- an earlier (before the Bologna declaration) study programme with a university degree.

Graduates from earlier study programmes for acquiring specialisation who have completed a professional higher education programme have to fulfil study obligations worth 30 ECTS of individual research work to enrol in the third-cycle study programme.

Graduates from earlier study programmes for acquiring the master of science degree or specialisation who have concluded the study programme for a university degree shall be given recognition of 60 ECTS worth of study obligations in the third-cycle doctoral study programme. Upon enrolment supplementary exams worth 20 ECTS will be assigned individually to such candidates in order for them to acquire all the necessary knowledge. The exams are selected from the courses of the doctoral study programme. The sum of all the ECTS acquired from mandatory supplementary exams, individual research work, seminar II and III, and potential elective courses amounts to 120 ECTS, so the candidate acquires, together with the recognised 60 ECTS, 180 ECTS altogether.

If the number of candidates exceeds the number of available positions, the candidates shall be sorted and selected based on their 2<sup>nd</sup> cycle academic performance (average grade, the number of points equals the average grade, up to 10 points) and potential work experience and other study or research achievements and prizes, as evident from the candidate's motivation letter and CV (up to 10 points, subject to the evaluation of the Study Commission).

### **Master Studies Enrolment Requirements:**

Eligible for enrolment in the first academic year of the second-cycle study programmes are candidates who have graduated in the first-cycle study programmes in natural sciences, technical disciplines or computer science earning at least 180 ECTS, or have completed higher education studies in these fields comprising at least three years of lectures. Candidates must also be proficient in English, which they can prove by language proficiency certificates.

Graduates from first-cycle study programmes in other disciplines, totalling 180 ECTS, should address their applications to the IPS Study Commission, which will define the study obligations to be met before the enrolment in the first academic year. These obligations shall be selected from the teaching modules of the first-cycle study programme depending on the dissimilarity of the disciplines concerned, and total between 10 and 60 ECTS. Candidates can fulfil these obligations either during their first-cycle degree studies, through advanced training programmes or by passing the relevant exams before the enrolment in the master's degree study programme.

Candidates who have completed first-cycle undergraduate study programmes in natural sciences, technical disciplines or computer science, totalling 240 ECTS, may enrol in the second academic year of the second-cycle studies and will be given recognition of 60 ECTS worth of study obligations. On enrolment, compulsory obligations worth up to 20 ECTS will be individually determined so that they can obtain knowledge complementary to their previous studies. These obligations shall be selected from the mandatory course list in the master study programme. The student shall additionally have to acquire 60 ECTS from individual research work, master thesis and other elective courses.

Other candidates that acquired more than 180 ECTS during their undergraduate studies, specialist studies or in some other form of education can address a request to the IPS Study Commission which will discuss each case separately and determine the number of recognized second-cycle study obligations (60 ECTS maximum).



The candidates shall also have good command of the English language which they can prove by language proficiency certificates.

If the number of candidates exceeds the number of available positions, the candidates shall be sorted and selected based on their 1st cycle academic performance (average grade, the number of points equals the average grade, up to 10 points) and potential work experience and other study or research achievements and prizes, as evident from the candidate's motivation letter and CV (up to 10 points, subject to the evaluation of the Study Commission).

### **Detailed Description of Study Programmes:**

1. The Nanosciences and Nanotechnologies programme comprises the following fields of research:
  - nanomaterials: functional and quantum nanomaterials, magnetic nanoparticles, nanoceramics, nanowires, layered and single-layered nanomaterials,
  - properties of nanomaterials: research of electronic magnetic and optical properties in complex nanosystems and nonlinearities with femtosecond spectroscopy,
  - application of nanomaterials as catalysts, nanosensors, electronic and computer elements and in biotechnology, pharmaceutical technology and environmental technology,
  - molecular foundations of life sciences: nanobiology, molecular and structural biology, biochemistry, proteomics, cell biology, etc.
2. The Information and Communication Technologies programme comprises the following fields of research:
  - computer structures and systems,
  - knowledge technologies,
  - communication technologies,
  - advanced internet technologies,
  - intelligent systems and robotics,
  - digital transformation (master studies).
3. The Ecotechnologies programme comprises the following fields of research:
  - sustainable development with the integration of environmental, technological, economic, social and health goals,
  - environmental management systems, environmental control and development,
  - enhancement of the effective use of raw materials and energy, waste minimisation and recycling,
  - reduction of negative effects of production and transport on the environment and people, as well as planned improvement of the endangered environment,
  - development and application of clean technologies and products,
  - technology management.
4. Doctoral study programme Sensor Technologies comprises the following fields of research:
  - physical and chemical sensors,
  - sensors for ionizing photons and particles,
  - biosensors,
  - sensors and information and communication technologies.

**Place of studies:** Ljubljana, Slovenia

**Duration of studies:** 2 years for master study programmes and 3 years for doctoral study programmes.

**The study programmes are published on the following website:** <https://www.mps.si/en/>

Ljubljana, 29 March 2022