# JOŽEF STEFAN INTERNATIONAL POSTGRADUATE SCHOOL
## in cooperation with JOŽEF STEFAN INSTITUTE,
### Jamova 39, Ljubljana
## announces a call for enrolment into the 2019/2020 academic year:

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

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

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

## Info Day

The dates of the Info Day will be announced on the IPS website in the news section. We will gladly send you any further information via our email (info@mps.si).

## Enrolment Deadlines

Candidates for enrolment into postgraduate study programmes can apply in following enrolment deadlines:

**1st Enrolment Deadline:** The 1st enrolment period is from 16 March to 30 April 2019.

**2nd Enrolment Deadline:** The 2nd enrolment period is from 1 May to 30 June 2019.

**3rd Enrolment Deadline:** The 3rd enrolment period is from 1 July to 10 September 2019.

***4th Enrolment Deadline:** The 4th enrolment period is from 11 September to 30 September 2019.

**The final deadline applies to candidates who:*
- *have not completed their previous studies by 10 September,*
- *have not acquired funding for their studies,*
- *have not found a suitable supervisor,*
- *could not apply for enrolment before, due to maternity leave or other long-term sick leave, as shown in a corresponding certificate.*

## Number of Open Positions

Doctoral degree study programmes for citizens of the Republic of Slovenia and the European Union: 25 open positions are available for each year at each study programme.

Master degree study programmes for citizens of the Republic of Slovenia and the European Union: 10 open positions are available for each year at each study programme.

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

## Applications for Enrolment

The candidates submit their application for enrolment electronically through the eVŠ web portal which can be accessed through: http://portal.evs.gov.si/prijava.

1) **With a qualified digital certificate,** the printed form is not sent by post but the application for enrolment is entered into eVŠ by the end of the application deadline. By the deadline, the candidate shall send to the Jožef Stefan International Postgraduate School, Jamova 39, 1000 Ljubljana, Slovenia, by registered post, the attachments to the application which

are requested in the call for enrolment (on the attachment, a reference to the number of application for enrolment and the study programme the candidate is applying for should be stated).

2) **Without the qualified digital certificate** (with a username and password), the candidate shall submit the application form electronically to eVŠ, print it, sign it and send it with all the attachments requested in the call for enrolment by registered post by the end of the application deadline to the Jožef Stefan International Postgraduate School, Jamova 39, 1000 Ljubljana, Slovenia.

The applications will be considered to have arrived **on time**:

1) if the application was **filled out** and **submitted with electronic signature** in the eVŠ by the end of the application deadline and
2) if the application was **filled out in the eVŠ**, **printed** in the same form as was submitted in the final version to the eVŠ, **signed and sent by registered post** to the Jožef Stefan International Postgraduate School by the end of the application deadline.

## Mandatory attachments to the application:

- Diploma or Degree Certificate – (certified) copy of the diploma certificate of the highest acquired education
- Transcript of records – (certified) copy of the entire diploma supplement or a transcript of records with the average grade (from previous studies)
- Short CV
- Motivation letter for studies at a particular study programme and the description of the research field (1 Page)
- Supervisor's approval of the selected courses and the potential co-supervisor
- Letter(s) of recommendation (optional)
- Description and certificates of work experience (optional)
- Photo for documents

## Doctoral Studies Enrolment Requirements:

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

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

Graduates from earlier study programmes for acquiring specialisation who have concluded professional higher education programme have to fulfil study obligations worth 30 credit points 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 university degree shall be given recognition for 60 credit points worth of study obligations in the third-cycle doctoral study programme. Upon enrolment supplementary exams worth 24 credit points 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 credit points acquired from mandatory supplementary exams, individual research work, seminar II and III and potential elective courses amounts to 120 credit points, so the candidate acquires, together with the recognised 60 credit points, 180 credit points altogether.
If the number of candidates exceeds the number of available positions, the candidates are sorted and selected based on the criteria published on the website.

## Master Studies Enrolment Requirements:

Eligible for enrolment in the first academic year of 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 credit points, 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 credit points, should address their applications to the IPS Study Commission, which defines study obligations to be met by candidates before enrolment in the first academic year. These obligations are defined from the teaching modules of the first-cycle study programme depending on the dissimilarity of the disciplines concerned, and total between 10 and 60 credit points. Candidates can fulfil these

obligations either during their first-cycle degree studies, through advanced training programmes or by passing the relevant exams before enrolment in the master's degree study programme.
Candidates who have completed first-cycle undergraduate study programmes, totalling 240 KT, in natural sciences, technical disciplines or computer science may enrol in the second academic year of the second-cycle studies and will be given recognition for 60 credit points worth of study obligations. On enrolment, their compulsory exams earning 18 to 21 credit points will be individually determined so that they can obtain knowledge and skills complementary to their previous studies. The student shall additionally have to acquire 60 credit points from individual research work, master thesis and other selected courses.
Other candidates that acquired more than 180 credit points during their undergraduate studies, specialist studies or in some other forms 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 credit points to the maximum).
In case the number of applicants exceeds the number of positions available, they shall be sorted and accepted on the basis of the following criteria: Achievements in the first-cycle studies (average and diploma grades), eventual work experience and other study or research achievements, prizes and awards stated in the CV and letter of motivation for studies.

## 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, including embedded, parallel and distributed systems,
- knowledge technologies, intelligent systems, language technologies,
- contemporary concepts in telecommunications,
- advanced internet technologies and applications, security and protection in ICT systems,
- automation, robotics and biocybernetics, computer automation and control.

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 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.

**Language of instruction:** Slovenian and English.

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

Ljubljana, 7 March 2019