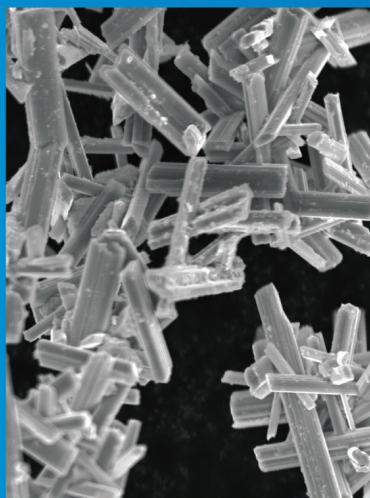




IPS JOŽEF STEFAN INTERNATIONAL POSTGRADUATE SCHOOL



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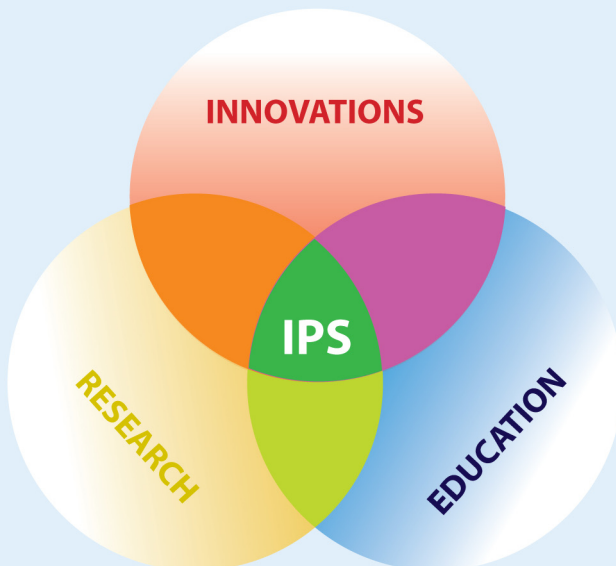
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What is IPS?

The mission of the Jožef Stefan International Postgraduate School is to be:

- **a Research-Educational Institution,**
with the goal to contribute, by a high-quality research-educational approach, to
*the creation of knowledge,
material and cultural wealth;*
- **an International Juncture of Science and Education**
uniting leading national and international researchers in order to achieve the highest level in education of Masters and Doctors of Science;
- **a Centre for the Encouragement of Innovations**
through direct integration of fundamental research and postgraduate studies with industrial research projects in order to support knowledge-intensive production and services with increased added value by implementing the principles of sustainable development;
- **a Focus of Science Culture,**
which respects and nourishes all cultural aspects of science, as well as seeks to take part in defining and disseminating scientific values as part of the national and international culture.



Who is IPS?

The Jožef Stefan International Postgraduate School integrates the creativity of:

- **Founders** of the Jožef Stefan International Postgraduate School in 2004:
Jožef Stefan Institute
together with four cofounders
Gorenje, Velenje
Kolektor, Idrija
Salonit, Anhovo
Slovenian Insurance Association, Ljubljana
- **IPS Associate Partners:**

BSH, Nazarje	MIK, Vojnik
Cosylab, Ljubljana	Premogovnik Velenje, Velenje
Domel, Železniki	Štore Steel, Štore
ETI, Izlake	Talum, Kidričevo
HYB, Šentjernej	Telekom Slovenije, Ljubljana
IMT, Ljubljana	Termoelektrarna Šoštanj, Šoštanj
Juteks, Žalec	Trimo, Trebnje
LTH Ulitki, Škofja Loka	Ustanova Fundacija "Poti miru v Posočju", Kobarid
Luka Koper, Koper	Unior, Zreče
- **IPS Students** – enrollment in the academic year 2011/2012:
188 in doctoral studies
17 in master's studies
Students from other countries: Albania, Bangladesh, Bosnia and Herzegovina, China, Croatia, Czech Republic, France, India, Ireland, Italy, Kosovo, Macedonia, Moldova, Pakistan, Poland, Romania, Russian Federation, Serbia, Ukraine
- **IPS Professors** – leading researchers and recognised university teachers, several with high international scientific awards:
37 Full Professors
30 Associate Professors
31 Assistant Professors
20 Assistants

With Visiting Professors from:

Brown University, USA	Technische Universität München, Germany
ETH Zürich, Switzerland	University of Antwerp, Belgium
Gdansk University of Technology, Poland	University of California, San Francisco, USA
Ghent University, Belgium	University of California, Santa Barbara, USA
Imperial College London, United Kingdom	University of Freiburg, Germany
Keio University, Yokohama, Japan	University of Sheffield, United Kingdom
Rudjer Bošković Institute, Croatia	

IPS Programmes

Common goals of the Jožef Stefan International Postgraduate School programmes include in particular:

- education and training for individual and team research work in mastering modern research methods and techniques in international cooperation;
- broadening and deepening of the content, methods and techniques of knowledge in selected fields of natural and information sciences, technologies and engineering, which will support the strategic choice, development, transfer, optimisation, exploitation and control over selected technologies for better business efficiency, together with implementing broader social interest in sustainable development;
- enabling target-oriented studies by a wide offer of predominantly elective subjects;
- broadening horizons of postgraduate students by incorporating fundamental knowledge of economy, law and sociology in order to improve the effectiveness of research and development work.

IPS Study Programmes:

- **Nanosciences and Nanotechnology** – Interdisciplinary postgraduate programme covering the fields of:
 - Nanomaterials
 - Nanophysics
 - Nanochemistry
 - Biosciences
 - Advanced Metallic Materials
 - Nanomechanics
- **Information and Communication Technologies** – Interdisciplinary postgraduate programme covering the fields of:
 - Knowledge Technologies
 - Advanced Internet Technologies
 - Computer Structures and Systems
 - Intelligent Systems and Robotics
 - Advanced Concepts in Telecommunications
- **Ecotechnology** – Interdisciplinary postgraduate programme covering the fields of:
 - Processes and Products with Increasing Efficiency in the Use of Material and Energy
 - Waste Minimisation and Recycling
 - Reducing Negative Impact on the Environment
 - Improving Endangered Environments

Research Equipment

Efficient research-educational work is supported by the topmost research equipment, provided by the IPS partners, especially the Jožef Stefan Institute and centres of excellence from the fields of advanced (new) synthetic metal and non-metal materials and nanotechnologies, complex systems and innovative technologies, health and life sciences, as well as sustainable economy.

IPS Achievements

Since the establishment of IPS in 2004 and up until the end of year 2011, the IPS awarded 118 master's and doctoral degrees.

PhD:

• Nanosciences and Nanotechnologies	41
• Information and Communication Technologies	19
• Ecotechnology	19 Total 79

Master's Degree:

• Nanosciences and Nanotechnologies	7
• Information and Communication Technologies	14
• Ecotechnology	18 Total 39

The high quality of the research-educational process is reflected especially in the following achievements:

- At least two per candidate, but with many doctoral students from 5 to 10 published articles in journals with high impact factor. Among the research results of doctoral students are also those of such quality that they are published in the internationally most recognised journals, such as Science, Nature Nanotechnology, Nature Photonics, Physical Review Letters, Nano Letters, Cell.
- Patents and direct transfer of research results into production and environment protection in the industry of appliance construction, electrical installations, special plastics, energy sources, construction materials and constructions, transport and communications.
- Active involvement in international projects, particularly within the framework of the EU.
- Awards and acknowledgments given to doctoral and master graduates, such as the Jožef Stefan Golden Emblem Prize, the Puh Award and other awards presented for excellent achievements in research and knowledge transfer.
- Annual Student Conferences organised by the IPS in collaboration with industry in order to present the research achievements and the opportunities for further research and development.
- The great majority (more than 90 %) of PhD and Master's degree graduates entered employment even before finishing their studies.

Invitation for Collaboration

The Jožef Stefan International Postgraduate School will gladly receive:

- requests for further information about the IPS activities and possibilities of entering its programmes,
- remarks and suggestions for improving the quality of the IPS work.

All requests, remarks and suggestions should be sent to our e-mail info@mps.si or to the address:
Jožef Stefan International Postgraduate School, Jamova 39, 1000 Ljubljana, Slovenia



MPŠ MEDNARODNA PODIPLOMSKA ŠOLA JOŽEFA STEFANA



MPŠ

Institut "Jožef Stefan", Ljubljana, Slovenija

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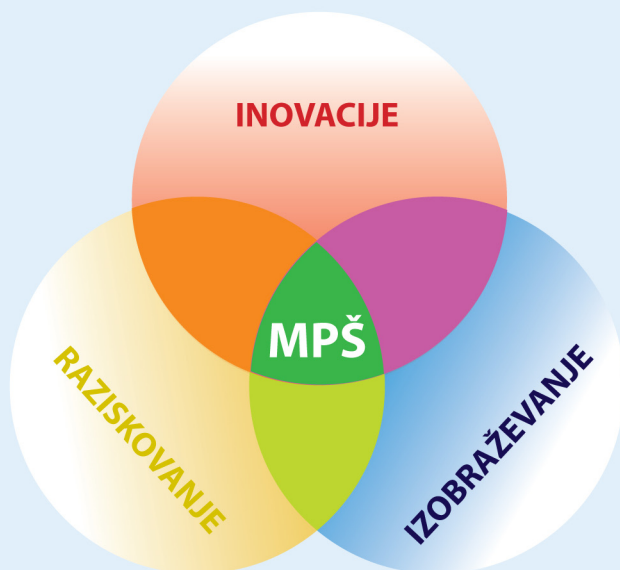
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Kaj je MPŠ?

Mednarodna podiplomska šola Jožefa Stefana deluje kot:

- **Raziskovalno-izobraževalna institucija,**
njeno poslanstvo je z raziskovalno-izobraževalnim pristopom visoke kakovosti prispevati k
*ustvarjanju znanja
in materialnih ter kulturnih dobrin.*
- **Mednarodno znanstveno-izobraževalno stičišče,**
ki združuje vrhunske domače in tuje raziskovalce kot visokošolske učitelje za doseganje najvišjih ravni v vzgoji magistrstrov in doktorjev znanosti.
- **Središče za spodbujanje razvoja inovacij**
z neposrednim povezovanjem temeljnih raziskav in podiplomskega izobraževanja z industrijskimi razvojnimi projekti za večanje deleža znanja in doseganje višje dodane vrednosti v proizvodnji in storitvah ob uveljavljanju načel trajnostnega razvoja.
- **Znanstveno-kulturno žarišče,**
ki spoštuje in goji vse kulturne razsežnosti znanosti in si prizadeva prispevati k opredeljevanju in širjenju znanstvenih vrednot kot dela nacionalne in svetovne kulture.



Kdo je MPŠ?

V Mednarodni podiplomski šoli Jožefa Stefana združujejo ustvarjalnost:

- **Ustanovitelji** Mednarodne podiplomske šole Jožefa Stefana leta 2004:
Institut "Jožef Stefan"
skupaj s 4 gospodarskimi soustanovitelji
Gorenje, Velenje
Kolektor, Idrija
Salonit, Anhovo
Slovensko zavarovalno združenje, Ljubljana
- **Pridruženi partnerji MPŠ:**

BSH, Nazarje	MIK, Vojnik
Cosylab, Ljubljana	Premogovnik Velenje, Velenje
Domel, Železniki	Štore Steel, Štore
ETI, Izlake	Talum, Kidričevo
HYB, Šentjernej	Telekom Slovenije, Ljubljana
IMT, Ljubljana	Termoelektrarna Šoštanj, Šoštanj
Juteks, Žalec	Trimo, Trebnje
LTH Ulitki, Škofja Loka	Ustanova Fundacija "Poti miru v Posočju", Kobarid
Luka Koper, Koper	Unior, Zreče
- **Študenti MPŠ** – vpis v študijskem letu 2011/2012:
188 na doktorski študij
17 na magistrski študij
Študenti iz drugih držav: Albanija, Bangladeš, Bosna in Hercegovina, Češka republika, Francija, Hrvaška, Indija, Irska, Italija, Kitajska, Kosovo, Makedonija, Moldavija, Pakistan, Poljska, Romunija, Ruska federacija, Srbija, Ukrajina
- **Učitelji MPŠ** – habilitirani visokošolski učitelji in mednarodno uveljavljeni raziskovalci, med njimi tudi prejemniki visokih mednarodnih znanstvenih priznanj:
37 rednih profesorjev
30 izrednih profesorjev
31 docentov
20 asistentov

Institucije vabljenih tujih profesorjev MPŠ:

Albert-Ludwigs-Universität Freiburg, Nemčija	Rudjer Bošković Institute, Hrvaška
Brown University, ZDA	Technische Universität München, Nemčija
ETH Zürich, Švica	University of Antwerp, Belgija
Gdansk University of Technology, Poljska	University of California, San Francisco, ZDA
Ghent University, Belgija	University of California, Santa Barbara, ZDA
Imperial College London, Velika Britanija	University of Sheffield, Velika Britanija
Keio University, Yokohama, Japonska	

Programi MPŠ

Skupni cilji programov Mednarodne podiplomske šole Jožefa Stefana so zlasti:

- usposabljanje za samostojno in skupinsko raziskovalno delo z obvladovanjem sodobnih metod in tehnik znanstvenega raziskovanja v mednarodnem povezovanju;
- širjenje in poglobljanje vsebin, metod in tehnik znanja na izbranih področjih naravoslovnih in informacijskih znanosti, tehnologij in inženirstva, ki bo podpiralo strateško izbiro, razvoj, prenos, optimizacijo, izkoriščanje in kontrolo izbranih tehnologij za večjo poslovno učinkovitost ob hkratnem uveljavljanju širših družbenih interesov za trajnostni razvoj;
- omogočanje ciljanega študija z bogatim izborom pretežno izbirnih znanj;
- širjenje obzorja podiplomcev z izborom za učinkovitost raziskovalnega in razvojnega dela pomembnih temeljnih znanj s področij ekonomije, prava in sociologije.

Študijski programi MPŠ:

- **Nanoznanosti in nanotehnologije** – interdisciplinarni podiplomski program, ki zajema področja:
 - nanomateriali
 - nanofizika
 - nanokemija
 - bioznanosti
 - napredni kovinski materiali
 - nanomehanika
- **Informacijske in komunikacijske tehnologije** – interdisciplinarni podiplomski program, ki zajema področja:
 - tehnologije znanja
 - napredne internetne tehnologije
 - računalniške strukture in sistemi
 - inteligentni sistemi in robotika
 - sodobni koncepti v telekomunikacijah
- **Ekotehnologija** – interdisciplinarni podiplomski program, ki zajema področja:
 - postopki in proizvodi z višjo učinkovitostjo uporabe surovin in energije
 - minimizacija in reciklaža odpadkov
 - zmanjševanje negativnih učinkov na okolje
 - izboljševanje ogroženega okolja

Raziskovalna oprema

Učinkovito raziskovalno-izobraževalno delo podpira vrhunska raziskovalna oprema, ki jo nudijo partnerji šole, posebej Institut "Jožef Stefan" in centri odličnosti na področjih naprednih (novih) sintetičnih kovinskih in nekovinskih materialov in nanotehnologij, kompleksnih sistemov in inovativnih tehnologij, zdravja in znanosti o življenju ter tehnologij za trajnostno gospodarstvo.

Dosežki MPŠ

Od ustanovitve MPŠ leta 2004 do konca leta 2011 je bilo doseženih 118 magisterijev in doktoratov.

Doktorati:

- Nanoznanosti in nanotehnologije 41
- Informacijske in komunikacijske tehnologije 19
- Ekotehnologija 19 Skupaj 79

Magisteriji:

- Nanoznanosti in nanotehnologije 7
- Informacijske in komunikacijske tehnologije 14
- Ekotehnologija 18 Skupaj 39

Visoka kakovost raziskovalno-izobraževalnega procesa se odraža zlasti v naslednjih dosežkih:

- Najmanj po dva, pri mnogih doktorandih po 5–10 objavljenih člankov v mednarodnih revijah s faktorjem vpliva. Med njimi so tako ugledne revije kot so Science, Nature Nanotechnology, Nature Photonics, Physical Review Letters, Nano Letters, Cell.
- Patenti in neposredni prenosi dosežkov v proizvodnjo in varovanje okolja v industriji gradnje aparatov, elektroinstalacij, specialne plastike, energentov, gradbenih materialov in konstrukcij, transporta in komunikacij.
- Neposredno sodelovanje v mednarodnih projektih, zlasti v okviru EU.
- Nagrade in priznanja doktorjem znanosti in magistrim, kot so Zlati znak IJS, Puhova nagrada ter druge nagrade za vrhunske dosežke v raziskovanju in prenosu znanja.
- Redne letne Študentske konference MPŠ v sodelovanju z industrijo za predstavitev raziskovalnih dosežkov in raziskovalno-razvojnih možnosti.
- Velika večina (nad 90 %) doktorjev znanosti in magistrstov se je dogovorila za zaposlitev že pred zaključkom študija.

Vabilo k sodelovanju

Mednarodna podiplomska šola Jožefa Stefana bo z veseljem sprejela:

- zahteve za podrobnejše informacije o njenih dejavnostih in možnostih vključevanja v njene programe,
- pripombe in predloge za višanje kakovosti dela MPŠ.

Pošljite jih na e-naslov info@mps.si ali na naslov:

Mednarodna podiplomska šola Jožefa Stefana, Jamova 39, 1000 Ljubljana, Slovenija