

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Univerza v Ljubljani, Fakulteta za elektrotehniko

2. Ime, priimek in elektronski naslov mentorja/ice (Mentor's name, surname and email):

Gaber Begeš, gaber.beges@fe.uni-lj.si

3. Raziskovalno področje (Research field):

Merjenje, senzorika, temperatura, okoljski pogoji, kalibracije

4. Opis raziskovalnega dela (Research work description):

Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce (It includes any additional conditions that the candidate for a young researcher must meet, which are not listed in the call to tender for young researchers.).

Slov.: Kandidat se bo ukvarjal z raziskovanjem in razvojem merilnih zmogljivosti za zaznavanje okoljskih parametrov, z osredotočenostjo na merjenje temperature zraka. Raziskoval bo vplivne veličine na izmerjeno temperaturo ter karakteristike različnih vrst temperaturnih senzorjev. Senzorji, ki bodo predmet raziskav, so lahko uporabni temperaturni senzorji (npr. Pt100), lahko pa tudi senzorji, ki temeljijo na sodobnejših pristopih, kot so temperaturni senzorji na osnovi steklenih (optičnih) vlaken ali drugi napredni senzorji. Poudarek raziskav bo na analizi merilne točnosti, dolgoročne stabilnosti ter negotovosti meritev v različnih pogojih uporabe. Delo bo vključevalo laboratorijske meritve, meritve v realnih razmerah in validacijo senzorjev za specifične aplikacije v industriji in okolju ter analizo kalibracijske možnosti.

Kandidat mora imeti osnovno znanje iz področja merilne tehnike, senzorike in obdelave merilnih podatkov. Zaželeno je znanje statistične obdelave meritev ter poznavanje osnov programiranja (npr. Python ali LabVIEW).

Eng.: The candidate will be engaged in research and development of measurement capabilities for sensing environmental parameters, with a focus on air temperature measurement. Investigation will include the influencing variables on the measured temperature and the characteristics of different types of temperature sensors. The sensors that could be the subject of research can be resistive temperature sensors (e.g. Pt100), but also more modern type sensors, such as fibre-glass-based (optical fibre) sensors or other advanced temperature sensors. The emphasis of the work will be on the analysis of measurement accuracy, long-term stability and measurement uncertainty for intended use. The work will include laboratory measurements, real-life measurements and validation of sensors for specific applications in industry and the environment and analysis of calibration possibilities.

The candidate should have basic knowledge of measuring technique, measurement systems, sensor technology, and data analysis. Expertise in statistical processing of measurement data and basic programming skills (e.g., Python or LabVIEW) is desirable.

5. Priloge, ki jih kandidat priloži k prijavi (Documents that the candidate submits with the application):

☒ **diplomska listina/potrdilo o zaključku študijskega programa** (diploma certificate for study programme, with which the candidate has enrolled/ will enroll in a doctoral degree programme)

☒ **priloga k diplomi/ potrdilo o opravljenih obveznostih** (official transcript of all the grades for study programme, with which the candidate has enrolled/will enroll in a doctoral degree programme)

☒ **potrdilo o do sedaj opravljenih obveznostih z ocenami študijskega programa, s katerim se bo kandidat prijavil na študij** (official transcript of all the grades the candidate has received so far for the study programme, with which the candidate will enroll to a doctoral degree programme)

☐ **nagrade** (awards (e.g. Prešeren Prize of the University of Ljubljana, Prešeren Prize of a University of Ljubljana member and/or another equivalent award))

☐ **bibliografija** (bibliography)

☒ **živiljenjepis** (CV)

☐ **motivacijsko pismo** (*motivation letter*)

☒ **opis dosedanjega sodelovanja pri raziskovalnem delu** (*description of the candidate's research work*)

☐ **osnutek idejne zasnove raziskovalnega dela** (*preliminary research proposal*)

☐ **priporočilno pismo** (*letter of recommendation*)

☐ **druge priloge** (*other attachments*)

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Univerza v Ljubljani, Fakulteta za elektrotehniko
(University of Ljubljana, Faculty of Electrical Engineering)

2. Ime, priimek in elektronski naslov mentorjalice (Mentor's name, surname and email):

Marko Jošt (marko.jost@fe.uni-lj.si)

3. Raziskovalno področje (Research field):

2.03.03 – Obnovljivi viri in tehnologije (Renewable resources and technologies)

4. Opis raziskovalnega dela (Research work description):

Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce (It includes any additional conditions that the candidate for a young researcher must meet, which are not listed in the call to tender for young researchers.).

Slov.:

Raziskovalno delo mladega raziskovalca bo umeščeno v širše področje fotovoltaike, ki v preteklih letih povsod po beleži strm razvoj. Osredotočeno bo na izdelavo in karakterizacijo perovskitnih sončnih celic, nove fotovoltaične tehnologije, ki obeta, da bo v kratkem konkurenčna tehnolgiji silicijevih sončnih celic in da bo kmalu vstopila na trg.

Glavni cilj raziskovanja bo izdelava visokoučinkovitih perovskitnih minimodulov. Potek raziskovalnega dela se bo izvajal v več medsebojno povezanih fazah. Prva faza bo usmerjena v izdelavo in karakterizacijo laboratorijskih, visokoučinkovitih perovskitnih sončnih celic z različnimi kompozicijami in energijskimi režami. V drugi fazi sledi prenos izdelave posameznih plasti z manjših na večje površine z uporabo metod »blade in slot-die coatinga«. V tretji fazi bo mladi raziskovalec optimiziral proces ablacije z laserskim žarkom, s katerim se zagotovi povezava med posameznimi celicami v minimodulu. V sodelovanju s preostalimi raziskovalci laboratorija bo tudi možnost nadgradnje v perovskitno-perovskitne tandemske minimodule. Izdelani perovskitni moduli nato enkapsulirani in testirani pod realnimi pogoji.

Mladi raziskovalec bo raziskoval v Laboratoriju za fotovoltaiko in optoelektroniko (LPVO) na Fakulteti za elektrotehniko Univerze v Ljubljani (UL FE). Njegovo raziskovalno delo bo tesno vpeto tako v raziskovalni program »Fotovoltaika in elektronika« (P2-0415) kot tudi v ostale tekoče mednarodne raziskovalne projekte, v sklopu katerih bo sodeloval z drugimi priznanimi raziskovalnimi organizacijami doma in v tujini.

Mladi raziskovalec bo vpisal doktorski študij Elektrotehnika na UL FE. Od kandidata se pričakujeta visoka stopnja motiviranosti za delo in veselje do eksperimentalnega dela v laboratoriju ter da obvlada angleški jezik.

Eng.:

The research activities of the young researcher will be focused on the area of photovoltaics, which has grown rapidly in the recent years both all over the world. The specific tasks will involve fabrication and characterization of perovskite solar cells that have the potential to compete with silicon solar cell technology and to enter the PV market soon.

The main goal of the research will be the fabrication of highly efficient perovskite minimodules. The course of the research work will be carried out in several interconnected phases. The first phase will be focused on the fabrication and characterization of laboratory, highly efficient perovskite solar cells with different compositions and energy gaps. The second phase will involve the transfer of the fabrication of individual layers from smaller to larger areas using the blade and slot-die coating methods. In the third phase, the young researcher will optimize the laser ablation process, which ensures the connection between individual cells in the minimodule. In collaboration with other researchers in the laboratory, there will also be the possibility of upgrading to perovskite/perovskite tandem minimodules. The produced perovskite modules will then be encapsulated and tested under real conditions.

The young researcher will carry out his research in the Laboratory of Photovoltaics and Optoelectronics (LPVO) at the Faculty of Electrical Engineering, University of Ljubljana (UL FE). His research activities will be tightly connected to the research programme »Photovoltaics and Electronics« (P2-0415) and other on-going international research projects, which will lead to cooperation with other renowned domestic and foreign research institutions.

The candidate will enroll to the doctoral program Electrical Engineering at UL FE. He is expected to exhibit a high level of motivation and joy for experimental work in the laboratory, and is an advanced user of the English language.

5. Priloge, ki jih kandidat priloži k prijavi (*Documents that the candidate submits with the application*):

☒ **diplomska listina/potrdilo o zaključku študijskega programa** (*diploma certificate for study programme, with which the candidate has enrolled/ will enroll in a doctoral degree programme*)

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☒ **življenjepis** (CV)

☒ **motivacijsko pismo** (*motivation letter*)

Opis raziskovalnega dela (Research work description)

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Univerza v Ljubljani, Fakulteta za elektrotehniko

2. Ime, priimek in elektronski naslov mentorja/ice (Mentor's name, surname and email):

Benjamin Lipovšek (benjamin.lipovsek@fe.uni-lj.si)

3. Raziskovalno področje (Research field):

2.03.03 Obnovljivi viri energije (Renewable energy)
2.09.04 Optoelektronika (Optoelectronics)
2.09.03 Mikroelektronika (Microelectronics)

4. Opis raziskovalnega dela (Research work description):

Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce (It includes any additional conditions that the candidate for a young researcher must meet, which are not listed in the call to tender for young researchers.).

Slov.:

Raziskovalno delo mladega raziskovalca bo osredotočeno na optoelektroniko in mikroelektroniko, področji, ki sta v zadnjih letih doživeli izjemen razvoj tako v Evropi kot tudi v Sloveniji. Cilj raziskav bo poglobljena karakterizacija, načrtovanje in optimizacija sodobnih optoelektronskih in mikroelektronskih gradnikov, pri čemer bo poseben poudarek namenjen razvoju in uvajanju naprednih konceptov za izboljšanje njihovih lastnosti in zmogljivosti.

Cilji:

- Razvoj naprednih kombiniranih numeričnih modelov in simulatorjev za računalniško podprto načrtovanje optoelektronskih in mikroelektronskih gradnikov,
- razvoj inovativnih opto-električnih karakterizacijskih metod za natančno analizo njihovega delovanja,
- zasnova, optimizacija in realizacija novih konceptov nano in mikro struktur v optoelektronskih in mikroelektronskih gradnikih.

Mladi raziskovalec bo svoje delo opravljal v okviru Laboratorija za fotovoltaike in optoelektroniko (LPVO) na Fakulteti za elektrotehniko (UL FE). Aktivno bo sodeloval v raziskovalnem programu »Fotovoltaike in elektronika« (P2-0415, 2022-2027) ter pri drugih tekočih raziskovalnih projektih. Poleg tega bo vključen v sodelovanje s priznanimi raziskovalnimi organizacijami doma in tujini, kar mu bo omogočilo vpogled v najnovejše trende in razvojne smernice.

Kandidat bo vpisal doktorski študij Elektrotehnika na UL FE. Od kandidata se pričakuje, da je suveren v programiranju in numeričnem modeliranju, ima izkušnje z eksperimentalnim delom v elektroniki ali optoelektroniki ter obvlada angleški jezik.

Eng.:

The research work of the young researcher extends to the fields of optoelectronics and microelectronics, which have experienced rapid development in both Europe and Slovenia in recent years. The focus will be on in-depth characterization, design, and optimization of modern optoelectronic and microelectronic components, with a special emphasis on research and implementation of advanced concepts to improve their performance.

Objectives:

- Development of advanced combined numerical models and simulators for computer-aided design of optoelectronic and microelectronic components.
- Development of innovative optoelectronic characterization methods for in-depth analysis of their operation.
- Design, optimization, and realization of new nano- and micro-structure concepts in optoelectronic and microelectronic components.

The young researcher will conduct their work within the Laboratory for Photovoltaics and Optoelectronics (LPVO) at the Faculty of Electrical Engineering, University of Ljubljana (UL FE). They will be involved in the research program "Photovoltaics and Electronics" (P2-0415, 2022-2027) and other ongoing research projects, as well as collaborate with renowned research organizations both domestically and internationally.

The candidate will enroll in the doctoral study program in Electrical Engineering at UL FE. The expected qualifications include proficiency in programming and numerical modeling, experience in experimental work in electronics or optoelectronics, and a strong command of the English language.

5. Priloge, ki jih kandidat priloži k prijavi (*Documents that the candidate submits with the application*):

☒ **diplomska listina/potrdilo o zaključku študijskega programa** (*diploma certificate for study programme, with which the candidate has enrolled/ will enroll in a doctoral degree programme*)

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☒ **življenjepis** (*CV*)

☒ **motivacijsko pismo** (*motivation letter*)

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Univerza v Ljubljani, Fakulteta za elektrotehniko
University of Ljubljana, Faculty of Electrical Engineering

2. Ime, priimek in elektronski naslov mentorja/ice (Mentor's name, surname and email):

Matej Možek (matej.mozek@fe.uni-lj.si)
Matej Možek (matej.mozek@fe.uni-lj.si)

3. Raziskovalno področje (Research field):

2.09 Elektronske komponente in tehnologije
2.09 Electronic components and technologies

4. Opis raziskovalnega dela (Research work description):

Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce (*It includes any additional conditions that the candidate for a young researcher must meet, which are not listed in the call to tender for young researchers.*).

Slov.:

Tema raziskovalnega dela mladega raziskovalca/ke (MR) bo načrtovanje, izdelava in integracija silicijevih senzorskih in aktuatorskih struktur s pametno elektroniko, kar bo vodilo v realizacijo kompleksnejših mikroelektronskih sistemov za medicinske, farmacevtske ali procesno-kemijsko inženirske aplikacije.

Delo MR predstavlja nadaljevanje obstoječih raziskav Laboratorija za mikrosenzorske strukture in elektroniko (LMSE) na področju polprevodniške tehnologije, MEMS, elektronskih vezij, mikrofluidike in debelo- ter tankoplastnih materialov v elektroniki.

Cilj raziskovalnega dela MR je razširitev obstoječih znanj na področju naprednih senzorskih sistemov za ključne aplikacije v medicini, farmaciji, procesnem-kemijskem inženirstvu in biologiji (oceanografija). Takšni sistemi bodo poleg osnovnih mikrofluidnih funkcij (kontrole pretoka, mešanja, usmerjanja itd.) izvajali še druge pomembne funkcije, kot so merjenje temperature, prevodnosti (slanost vode), globine, biološko zaznavanje, zbiranje električnega naboja idr.

Narava dela MR bo izrazito interdisciplinarna, saj bo vključevala raziskovalna področja materialov, mikrofluidne mehanike, elektronskih komponent, vezij, numeričnih simulacij in programiranja. Tema MR se tesno prepleta z izvajanjem obstoječih projektov programske skupine Mikrostrukture in nanostrukture.

MR mora imeti sposobnost strokovnega delovanja v mednarodnem okolju, kar zajema osnove pisanja znanstvenih člankov in dobro znanje angleškega jezika (B2/C1). Od MR se pričakuje visoka motiviranost, ki obsega samoiniciativnost, inovativnost, natančnost in zanesljivost pri delu. MR se aktivno vključuje v ekipo LMSE, pri čemer mora pokazati vnemo za sodelovanje z ostalimi sodelavci LMSE.

MR bo opravljal/a doktorski študij na doktorskem študijskem programu Elektrotehnika, Univerze v Ljubljani.

Eng.:

Main research topic of the young researcher candidate (YRC) will be the design, manufacturing and integration of silicon sensor and actuator structures with smart electronics, which will lead to the realization of more complex microelectronic systems for medical, pharmaceutical or chemical process engineering applications.

Research work of YRC will represent a continuation of existing research of the Laboratory for Microsensor Structures and Electronics (LMSE) in the field of semiconductor technology, MEMS, electronic circuits, microfluidics and thick- and thin-film materials in electronics.

Primary aim of YRC research work is to expand existing knowledge in the field of advanced sensor systems for key applications in medicine, pharmacy and chemical process engineering. In addition to basic microfluidic functions (flow control, mixing, etc.), such systems will perform other important functions, such as measurement of conductivity (water salinity), temperature, depth as well as biological detection, electric charge collection, etc.

Nature of YRC activity will be highly interdisciplinary, as it will include research areas of materials, microfluidic mechanics, electronic components, circuits, numerical simulations and programming. Research topic of YRC is closely intertwined with implementation of existing projects of the program group Microstructures and Nanostructures.

YRC must have the ability to work professionally in international environment, which includes the basics of writing scientific articles and a good knowledge of English (B2 / C1). YRC is expected to be highly motivated, which includes self-initiative, innovation and reliability at work. YRC can look forward to integration into the LMSE team, and must therefore exhibit enthusiasm to work with other LMSE staff.

YRC will conduct his/her doctoral study within doctoral studies program of Electrical Engineering, University of Ljubljana.

5. Priloge, ki jih kandidat priloži k prijavi (*Documents that the candidate submits with the application*):

- ☒ **diplomska listina/potrdilo o zaključku študijskega programa** (*diploma certificate for study programme, with which the candidate has enrolled/ will enroll in a doctoral degree programme*)
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- ☒ **nagrade** (*awards (e.g. Prešeren Prize of the University of Ljubljana, Prešeren Prize of a University of Ljubljana member and/or another equivalent award)*)
- ☒ **bibliografija** (*bibliography*)
- ☒ **življenjepis** (*CV*)
- ☒ **motivacijsko pismo** (*motivation letter*)
- ☒ **opis dosedanjega sodelovanja pri raziskovalnem delu** (*description of the candidate's research work*)
- ☐ **osnutek idejne zasnove raziskovalnega dela** (*preliminary research proposal*)
- ☐ **priporočilno pismo** (*letter of recommendation*)
- ☒ **druge priloge** (*other attachments*)

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1. Članica UL (UL member):

Univerza v Ljubljani, Fakulteta za elektrotehniko

2. Ime, priimek in elektronski naslov mentorja/ice (Mentor's name, surname and email):

Kristina Stojmenova Pečecnik, kristina.stojmenova@fe.uni-lj.si

3. Raziskovalno področje (Research field):

Glavno raziskovalno področje mladega raziskovalca oziroma mlade raziskovalke bodo inovativni načini ocenjevanja senzorno-motoričnih in kognitivnih sposobnosti človeka s pomočjo naprednih digitalnih rešitev. Poudarek bo predvsem na sočasnem zajemu več različnih podatkov oziroma kazalnikov sposobnosti, ki omogočajo hkratno oceno stanja senzorno-motoričnih in kognitivnih sposobnosti ter njihovih kompenzacijskih mehanizmov.

Raziskave na področju ocenjevanja senzorno-motoričnih in kognitivnih sposobnosti večinoma obravnavajo vsako sposobnost posebej in s tem posredno zanemarjajo kompenzacijske mehanizme, ki jih človek redno uporablja v vsakdanjem življenju. S pomočjo naprednih digitalnih rešitev, biometričnih senzorjev in drugih neinvazivnih metod zajemanja podatkov pa je mogoče zagotoviti celostno obravnavo senzorno-motoričnih in kognitivnih sposobnosti, ki so ključnega pomena za številna področja – od upravljanja strojev in vozil do opravljanja vsakdanjih opravil.

Nadalje bo mogoče tovrstne rešitve uporabljati ne samo za oceno, temveč tudi za trening in rehabilitacijo ob upadu teh ključnih funkcionalnih sposobnosti, kar lahko prispeva k večji in daljši samostojnosti posameznika. To je v času staranja prebivalstva ena glavnih prioritet Evropske unije in drugih razvitih držav po svetu.

4. Opis raziskovalnega dela (Research work description):

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Slov.: Raziskovalno delo bo potekalo v Laboratoriju za informacijske tehnologije (LaIT) v sodelovanju z raziskovalno skupino, ki deluje na področju interakcije človek-stroj. Poleg tega se bo spodbujalo sodelovanje z nacionalnimi in mednarodnimi raziskovalnimi organizacijami ter industrijskimi partnerji LaIT.

Raziskovalno delo bo vključevalo predvsem:

- *pregled literature in kritično presojo obstoječih rešitev,*
- *identifikacijo in testiranje različnih metod ocenjevanja senzorno-motoričnih in kognitivnih sposobnosti,*
- *prepoznavanje metod ocenjevanja, ki jih je mogoče bistveno izboljšati z uporabo digitalnih rešitev in zbiranjem velikih podatkov,*
- *oblikovanje in razvoj novih metod ocenjevanja,*
- *validacijo novo predlaganih metod ocenjevanja z najsodobnejšimi rešitvami ter vrednotenje teh metod z uporabniškimi študijami,*
- *diseminacijo rezultatov raziskovalnega dela v znanstvenih publikacijah.*

Za uspešno izvedbo raziskovalnega dela je potrebno tekoče znanje angleščine. Zahtevane so izkušnje z zbiranjem, analizo in celovito interpretacijo podatkov. Zaželeno so izkušnje z raziskovalnim delom.

Eng.: The research work will take place at the Laboratory of Information Technologies (LaIT) in collaboration with the rest of the research group working in the field of human-machine interaction. Additionally, collaboration with national and international research organizations, as well as industry partners of LaIT, will be highly encouraged. The research work will primarily involve:

- *A state-of-the-art review and critical assessment of existing solutions,*
- *Identification and testing of different methods for assessing sensory-motor and cognitive abilities,*
- *Identification of assessment methods that can be significantly improved through the use of digital solutions and big data collection,*
- *Design and development of new assessment methods,*
- *Validation of the newly proposed assessment methods using state-of-the-art solutions and evaluation through user studies,*
- *Dissemination of research results in scientific publications.*

To achieve the envisioned objectives, fluency in English is required. Experience with research work is desirable.

5. Priloge, ki jih kandidat priloži k prijavi (*Documents that the candidate submits with the application*):

☒ **diplomska listina/potrdilo o zaključku študijskega programa** (*diploma certificate for study programme, with which the candidate has enrolled/ will enroll in a doctoral degree programme*)

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☐ **nagrade** (*awards (e.g. Prešeren Prize of the University of Ljubljana, Prešeren Prize of a University of Ljubljana member and/or another equivalent award)*)

☐ **bibliografija** (*bibliography*)

☒ **življenjepis** (*CV*)

☐ **motivacijsko pismo** (*motivation letter*)

☒ **opis dosedanjega sodelovanja pri raziskovalnem delu** (*description of the candidate's research work*)

☐ **osnutek idejne zasnove raziskovalnega dela** (*preliminary research proposal*)

☐ **priporočilno pismo** (*letter of recommendation*)

☐ **druge priloge** (*other attachments*)