

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Ekonomska fakulteta

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

Doc. dr. Marko Budler, mag. gosp. inž. ; marko.budler@ef.uni-lj.si

3. Raziskovalno področje (Research field):

5.02.02 Družboslovje - Ekonomija - Poslovne vede

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.: Zaželeno je zanimanje mladega raziskovalca za področje trajnostnih, odpornih in digitalnih oskrbovalnih verig in poslovnih modelov, pa tudi vloge poslovne analitike, umetne inteligence in povezanih področij v podjetjih. Prednost bodo imeli kandidati z ustreznim zanimanjem in znanjem ter razumevanjem digitalnih tehnologij v kontekstu oskrbovalnih verig in trajnostnega poslovanja. Pričakuje se razvijanje sposobnosti raziskovalnega dela na presečišču digitalizacije, trajnostnih strategij in inovativnih poslovnih modelov, z uporabo kvantitativnih in/ali kvalitativnih metod raziskovanja. Zaželeno so kandidatove analitične sposobnosti ter sposobnost kritičnega razmišljanja in interdisciplinarnega povezovanja pri reševanju nestrukturiranih problemov. Zaželeno so izkušnje z orodji, kot so npr. Python, R, SQL, ter platforme vizualizacije podatkov. Ustrezno znanje in/ali načrtovana nadgradnja angleškega jezika je potrebno za raziskovalno delo, ki bo potekalo v mednarodnem akademskem okolju in bo vključevalo sodelovanje s tujimi institucijami in industrijskimi partnerji.

Eng.: A genuine and bold interest in sustainable, resilient, and digital supply chains and business models, as well as the role of business analytics, artificial intelligence, and related fields in corporate environments, is highly desirable for the young researcher. Preference will be given to candidates with relevant interest, knowledge, and understanding of digital technologies in the context of supply chains and sustainable business practices. The candidate is expected to develop research capabilities at the intersection of digitalization, sustainability strategies, and innovative business models, employing quantitative and/or qualitative research methods. Strong analytical skills, critical thinking, and the ability to engage in interdisciplinary collaboration for solving unstructured problems are highly valued. Experience with tools such as Python, R, SQL, and data visualization platforms is an advantage. Proficiency in English, or a commitment to improving it, is necessary, as the research will take place in an international academic environment and will involve collaboration with foreign institutions and industry partners.

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)
- ☐ **morebitne nagrade** (awards (e.g. Prešeren Prize of the University of Ljubljana, Prešeren Prize of a University of Ljubljana member and/or another equivalent award))
- ☐ **življenjepis z morebitno bibliografijo** (CV with bibliography)
- ☐ **motivacijsko pismo** (motivation letter)

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

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

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

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Ekonomska fakulteta, Univerza v Ljubljani

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

Prof. dr. Aleš Groznik, ales.groznik@ef.uni-lj.si

3. Raziskovalno področje (Research field):

5.02.01 Družboslovje- Ekonomija- Ekonomske vede in 5.02.02 Družboslovje- Ekonomija- Poslovne vede

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.: Področje raziskovalnega dela mladega raziskovalca bo osredotočeno na preučevanje povezav in sprememb, ki jih digitalizacija prinaša v poslovni svet. Njegovo ožje raziskovalno področje bo digitalizacija energetike, ki združuje številne vidike digitalnih tehnologij, poslovnih modelov in podatkovne analitike, pri čemer bodo pridobljena spoznanja aplikativna tudi na druge gospodarske panoge. Tako na splošni ravni kot v energetiki digitalizacija spodbuja obstoječa podjetja k intenzivnim spremembam poslovnih modelov, hkrati pa ustvarja priložnosti za nastanek novih podjetij, ki temeljijo na inovativnih tehnoloških rešitvah. Digitalizacija energetike postavlja v ospredje aktivnega odjemalca, temeljito preoblikuje načine poslovanja podjetij in uvaja napredne pristope k upravljanju informacijskih tokov ter analizi podatkov. Na te hitre in obsežne spremembe v dejavnosti dodatno vplivajo ambiciozni cilji na področju blaženja podnebnih sprememb.

Obdobje digitalizacije energetike zaznamuje eksponentna rast razpoložljivosti kvantitativnih in kvalitativnih podatkov, katerih združevanje, obdelava in analiza po eni strani preoblikujejo strukturo energetskega sistema, po drugi strani pa odpirajo številne raziskovalne priložnosti. Raziskovalni izzivi segajo od optimizacije energetskih omrežij do razvoja novih poslovnih modelov in prilagajanja regulativnim okvirjem v digitalizirani energetiki.

Mladi raziskovalec bo v času usposabljanja vpisan na redni doktorski študij na Ekonomski fakulteti Univerze v Ljubljani, s polnim financiranjem. V okviru študija bo pridobil in nadgradil teoretična in metodološka znanja, potrebna za uspešno samostojno raziskovalno delo. V sodelovanju z mentorjem bo v prvem letu doktorskega študija identificiral ključne raziskovalne vrzeli v znanstveni literaturi, oblikoval konkretna raziskovalna vprašanja, določil metodološki pristop ter prijavil temo doktorske disertacije.

Med doktorskim študijem bo pod mentorstvom pripravil najmanj tri visokokakovostne znanstveno-raziskovalne članke, ki bodo temeljili na njegovih raziskavah in bodo vključevali uporabo ekonometričnih ali drugih naprednih kvantitativnih metod, z namenom objave v mednarodno priznanih znanstveno-raziskovalnih revijah. Cilj mladega raziskovalca bo uspešen zaključek doktorskega študija v predvidenem času ter zagovor doktorske disertacije do izteka obdobja financiranja.

Od kandidata oziroma kandidatke za mladega raziskovalca se pričakuje:

- Visoka motiviranost za znanstveno-raziskovalno delo.
- Proaktivnost, ustvarjalnost in vztrajnost.
- Samostojno kritično analitično razmišljanje.
- Odlično pisno in ustno izražanje v angleškem jeziku.
- Sposobnost dela s podatki in uporabe kvantitativnih/ekonometričnih metod.
- Izkušnje z analizo velikega števila podatkov.
- Izkušnje z uporabo umetne inteligence.
- Odprtost v komunikaciji in sposobnost tako samostojnega kot skupinskega dela.

Eng.: The research work of the young researcher will focus on examining the connections and changes that digitalization brings to the business world. His narrower research area will be the digitalization of the energy sector, which integrates various aspects of digital technologies, business models, and data analytics, with insights that can also be applied to other industries. Both generally and specifically in the energy sector, digitalization is driving existing companies to undergo intensive transformations of their business models, while also creating opportunities for the emergence of new enterprises based on innovative technological solutions. The digitalization of the energy sector highlights the role of the active consumer, fundamentally reshapes business operations, and introduces advanced approaches to managing information flows and data analysis. These rapid and extensive changes are further influenced by ambitious climate change mitigation goals.

The era of digitalization in the energy sector is marked by an exponential increase in the availability of quantitative and qualitative data. Their integration, processing, and analysis not only transform the structure of the energy system but also open numerous research opportunities. Research challenges range from optimizing energy networks to developing new business models and adapting to regulatory frameworks in a digitalized energy environment.

During his training, the young researcher will be enrolled in the full-time doctoral program at the School of Economics and Business, University of Ljubljana, with full funding. Throughout the program, he will acquire and enhance the theoretical and methodological knowledge necessary for independent research work. In collaboration with his mentor, he will identify key research gaps in the scientific literature during the first year of doctoral studies, formulate specific research questions, define the methodological approach, and submit a dissertation proposal.

During the doctoral studies, under the mentorship of his supervisor, he will prepare at least three high-quality scientific research articles based on his dissertation research. These articles will include the application of econometric or other advanced quantitative methods, with the goal of publication in internationally recognized scientific journals. The ultimate objective of the young researcher will be the successful completion of his doctoral studies within the expected timeframe and the defense of his dissertation before the funding period expires.

The candidate for a young researcher is expected to:

- Be highly motivated for scientific research work.
- Be proactive, creative and persistent.
- Possess independent critical analytical thinking.
- Have excellent written and oral communication skills in English.
- Be skilled in working with data and using quantitative/econometric methods.
- Be open in communication and able to work independently and as a member of a team.

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

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- ☒ **priloga k diplomii/ 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*)
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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*)

Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

Ekonomska fakulteta

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

Aljoša Valentinčič, aljoša.valentincic@ef.uni-lj.si

3. Raziskovalno področje (Research field):

Finance

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 področje so finance, vključno s finančnim računovodstvom, poročanjem in finančno analizo, v povezavi z generativno umetno inteligenco in/ali nevroznanostjo. Zahteva za delovno mesto je odlično znanje angleškega jezika. Prednost bodo imele kandidatke(ki) s poznavanjem: ekonometrije, nevroznanosti, GAI, in sorodnih področij (npr. psihologije). Kandidat(-ka) se bo pridružila(-l) skupini ljudi, ki navdušeno raziskuje na teh področjih in enako pričakujemo tudi od kandidatke(-a).

Eng.: The research field is corporate finance, including financial accounting, reporting and financial statement analysis, in conjunction with generative artificial intelligence and/or neurosciences. Excellent mastering of English is a condition. Preference will be given to candidates with knowledge of econometrics, neuroscience, GAI, and related fields (e.g. psychology). The selected candidate will join a team enthusiastic researchers in these areas and we expect the same from the candidate.

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- ☐ **bibliografija** (*bibliography*)
- ☐ **življenjepis** (*CV*)
- ☐ **kratka motivacijska izjava** (*short motivation statement*)
- ☐ **opis dosedanjega sodelovanja pri raziskovalnem delu** (*description of the candidate's research work*)
- ☐ **druge priloge** (*other attachments*)