

## Opis raziskovalnega dela (Research work description)

1. Članica UL (UL member):

UNIVERZA V LJUBLJANI, PEDAGOŠKA FAKULTETA (University of Ljubljana, Faculty of Education)

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

Stanislav Avsec , Stanislav.Avsec@pef.uni-lj.si

3. Raziskovalno področje (Research field):

Družboslovje/Vzgoja in izobraževanje/specialna didaktika (področje STEAM) (Social sciences / Education / Special didactics (STEAM))

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.).

Pedagoška fakulteta Univerze v Ljubljani išče mladega raziskovalca, ki bi se pridružil naši programski skupini »Strategije vzgoje in izobraževanja za trajnostni razvoj ob uporabi inovativnih na učečega osredinjenih izobraževalnih pristopov«, na področju raziskav sodobnih in visoko učinkovitih digitalno in z umetno inteligenco podprtih izobraževalnih ekosistemih za trajnostnost in odpornost. Skupina preučuje in razvija učinkovite strategije vzgoje in izobraževanja za trajnostni razvoj upoštevajoč zadnja znanstvena dognanja in učinkov hitrega razvoja digitalnih tehnologij in orodji vključno z modeli umetne inteligence primernih za implementacijo v izobraževanje. Mladi raziskovalec bo vključen v raziskovalno delo nove programske skupine, kjer bo:

- sooblikoval in evalviral prototipne rešitve, denimo strategije poučevanja, ki vključujejo problemsko delo, raziskovalno učenje, snovalsko in sistemsko razmišljanje, uporabo informacijsko-komunikacijske tehnologije, digitalnih orodji in umetne inteligence ter interdisciplinarne pristope (STEAM);
- aktivno sodeloval pri načrtovanju in izvedbi empiričnih raziskav (ankete, intervjuji, analiza učinkov pilotnih implementacij, ipd.) ter pri pripravi znanstvenih in strokovnih objav s poudarkom na izobraževanju za trajnostni razvoj;
- sodeloval pri razvoju predlogov modelov in smernic za učinkovito vključevanje trajnostnih vsebin v različne ravni izobraževanja (od predšolske vzgoje do terciarnega izobraževanja) in pri diseminaciji rezultatov (konference, delavnice, promocija raziskav na širši javnosti).

V okviru tega dela bo mladi raziskovalec deležen celostne podpore ter vodenja pri razvijanju svojega znanstvenoraziskovalnega in pedagoškega potenciala, vključno z možnostjo dodatnega strokovnega izobraževanja in udeležbe na domačih ter mednarodnih znanstvenih srečanjih, vključevanje v domače in mednarodne projekte, zato je zaželeno, da ima:

- aktivno znanje angleškega jezika,
- dobre pisne in ustne komunikacijske spretnosti,
- sposobnost sodelovanja v multidisciplinarnem in mednarodnem raziskovalnem okolju,
- osnovno znanje raziskovalne metodologije in analize podatkov z uporabo statističnih in računalniških orodij.

Pri svojem delu do kandidat uporabljal tudi spekter naprednih digitalno-tehnoloških rešitev, zato bodo imeli prednost pri izbiri kandidati z boljšim poznavanjem digitalnih orodji, umetne inteligence, računalniško podprtega modeliranja in izdelave.

The Faculty of Education at the University of Ljubljana is looking for a young researcher to join our programme group "Educational strategies for sustainable development using innovative learner-centred educational approaches", in the field of research on modern and highly effective digital and AI-based educational ecosystems for sustainability and resilience. The group studies and develops effective strategies for education for sustainable development, taking into account the latest scientific knowledge and the impact of the rapid development of digital technologies and tools including AI models suitable for implementation in education. The young researcher will be involved in the research work of the new programme group, where he/she will:

- co-design and evaluate prototype solutions, such as teaching strategies involving problem-based learning, exploratory learning, design and systems thinking, the use of ICT, digital tools and AI, and interdisciplinary approaches (STEAM);
- actively participate in the design and implementation of empirical research (surveys, interviews, analysis of the effects of pilot implementations, etc.) and in the preparation of scientific and professional publications with a focus on education for sustainable development;

- Participate in the development of proposals for models and guidelines for the effective integration of sustainability content in different levels of education (from pre-school to tertiary education) and in the dissemination of the results (conferences, workshops, promotion of research to the general public).

In the framework of this work, the young researcher will receive comprehensive support and guidance in developing his/her scientific research and teaching potential, including the opportunity for additional professional training and participation in national and international scientific meetings, involvement in national and international projects, and it is therefore desirable that he/she has:

- Active knowledge of English,
- good written and oral communication skills,
- the ability to work in a multidisciplinary and international research environment,
- basic knowledge of research methodology and data analysis using statistical and computer tools.

The candidate will also use a range of advanced digital technology solutions in their work and preference will be given to candidates with a deeper knowledge of digital tools, artificial intelligence, computer-aided modelling and manufacturing.

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 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*)

☒ **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*)

☒ **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*)