Opis delovnega mesta mladega raziskovalca/ke (D*escription of the Young Researcher's position)*

1. Članica UL (*UL member)*:

Fakulteta za gradbeništvo in geodezijo (Faculty of Civil and Geodetic Engineering

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

Mateja Dovjak, mdovjak@fgg.uni-lj.si

3. Raziskovalno področje (*Research field*):

Gradbeništvo/Okoljsko zdravje /Interdisciplinarna raziskava (Civil Engineering/ Environmental Health/Interdisciplinary Research)

4. Opis delovnega mesta mladega raziskovalca/ke (D*escription of the Young Researcher's position)*: Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce.

slo: Znanstveno-raziskovalno delo mladega raziskovalca/ke bo usmerjeno v tematiko obravnave in reševanja neustrezne kakovosti zraka v stanovanjskih in nestanovanjskih stavbah. Za celovito obravnavo problema je potrebno preučiti medsebojni vpliv danosti lokacije, značilnost stavbe, sisteme prezračevanja in samega uporabnika. Raziskovalno delo bo usmerjeno v razumevanje mehanizmov in medsebojnih vplivov kemičnih onesnaževal in mikrobov v grajenem okolju. Metoda dela bo vključevala karakterizacijo stavbe in sistemov prezračevanja, meritve izbranih onesnaževal in modelne izračune kakovosti zraka, vključno z bioinformatiko in analizo velikih količin podatkov. Ključne ugotovitve znanstveno-raziskovalnega dela bodo sad multidisciplinarnih znanj in imajo veliko uporabno vrednost za načrtovanje intervencij v grajenem okolju, ki imajo zdravstvene, okoljske in ekonomske koristi za posameznika in družbo. Za dosego tega cilja poteka mednarodno in transdisciplinarno sodelovanje, ki vključuje planetarno zdravje kot novi koncept, povezan s cilji trajnostnega razvoja (SDG) Združenih narodov.

eng: The young researcher's scientific work focuses on addressing and solving the issue of inadequate indoor air quality in residential and non-residential buildings. The research takes a comprehensive approach, studying the interactions between the building location, the building characteristics, the ventilation systems, and the occupants. The research also focuses on understanding the mechanisms and interactions of chemical pollutants and microbes in the built environment. The working method includes building and ventilation system characterization, measuring pollutants, and modeling including bioinformatics and big data analysis. The research's key findings, based on multidisciplinary knowledge, are valuable for designing interventions in the built environment that have health, environmental, and economic benefits for individuals and society. To achieve this goal, international and transdisciplinarity joint collaboration are carried out from the viewpoint of Planetary Health, which is new concept

related to sustanable developmental goals (SDGs) in the United Nations.