

Opis delovnega mesta mladega raziskovalca/ke (*Description 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*):

Matjaž Mikoš, matjaz.mikos@fgg.uni-lj.si

3. Raziskovalno področje (*Research field*):

Vodarstvo (*Hydrology*)

4. Opis delovnega mesta mladega raziskovalca/ke (*Description of the Young Researcher's position*):

Vključuje morebitne dodatne pogoje, ki jih mora izpolnjevati kandidat/ka za mlade raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce

slo:

Mladi raziskovalec/ka (MR) se bo usposabljal/a z raziskovalnim delom v okviru raziskovalnega programa P2-0180 Vodarstvo in geotehnika: orodja in metode za analize in simulacije procesov ter razvoj tehnologij (www.fgg.uni-lj.si/raziskovalna-dejavnost/programske-skupine/).

Prevideno področje raziskovanja je hidravlično inženirstvo. Doktorska disertacija bo usmerjena v raziskovanje abrazijske odpornosti mineralnih agregatov (rečnih sedimentov) v laboratorijskih/naravnih pogojih in simulacije njihovih zrnastostnih/morfoloških sprememb na ravni porečij.

Pričakovani strokovni profil MR je magistrska izobrazba na področju inženirskih znanosti (vodarstvo, gradbeništvo, strojništvo) ali naravoslovja (uporabna fizika). V okviru dela na doktorski disertaciji bo MR lahko sodeloval pri aktivnostih Unesco katedre za zmanjševanje tveganja vodnih ujm (www.unesco-floods.eu) in Raziskovalnega inštituta za geo in hidro tveganja (RIGHT) ter delal v Laboratoriju za agregate.

Prednost pri izbiri bodo imeli kandidati s poglobljenim teoretičnim znanjem s področja predlagane disertacije in posebnimi praktičnimi znanji za izvedbo eksperimentalnega dela disertacije (eksperiment, laboratorij, terensko delo) ali simulacijskih numeričnih metod (Matlab, SIMULINK). Predviden je vpis na doktorski študij Grajeno okolje.

eng:

Young Researcher (MR) will be trained through research work in the framework of the Research Programme P2-1080 Water Science and Technology, and Geotechnical Engineering: Tools and Methods for Process Analyses and Simulations, and Development of Technologies (www.en.fgg.uni-lj.si/research/research-programmes/).

The planned field of research is hydraulic engineering. The doctoral thesis will focus on research of abrasion resistance of coarse mineral aggregates (river sediments) in laboratory/natural conditions, and to simulations of their granulometric/morphological changes on the river basin scale.

Expected MR professional profile is a MSc degree in engineering sciences (water sciences, civil engineering, mechanical engineering) or natural sciences (applied physics). As a part of the doctoral thesis MR will participate in the activities of the UNESCO Chair for water-related disaster risk reductions (www.unesco-floods.eu) and the Research Institute for Geo and Hydro-threats (RIGHT), and will work in the Laboratory for Aggregates.

Priority in the selection of candidates will be given to in-depth theoretical knowledge in the field of the dissertation and specific practical skills to carry out the experimental work of the dissertation (experiment, laboratory, field work) or simulation numerical methods (Matlab, SIMULINK). Foreseen is the enrolment into the doctoral studies Built Environment.