

Kratek opis usposabljanja mladega raziskovalca (*Short description of the Young Researcher's training*)

1. Raziskovalna organizacija (*Research organisation*):

Univerza v Ljubljani, Fakulteta za gradbeništvo in geodezijo, Jamova c. 2, 1000 Ljubljana

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

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

3. Šifra in naziv raziskovalnega področja (*Research field*):

2.20 Vodarstvo

4. Kratek opis usposabljanja mladega raziskovalca (*Short description of the Young Researcher's training*):

slo: Mladi raziskovalec/ka (MR) se bo usposabljala 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/). Predvideno področje raziskovanja je hidrologija in hidravlično inženirstvo. Doktorska disertacija bo usmerjena v raziskovanje mineralnih agregatov (rečnih sedimentov) v laboratorijskih in naravnih pogojih ter v simulacije njihovih zrnastostnih in morfoloških sprememb (forma, oblika, hrapavost). Pričakovani 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 drugih mednarodnih raziskovalnih projektih Raziskovalnega inštituta za geo in hidro tveganja (RIGHT). 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). 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 hydrology and hydraulic engineering. The doctoral thesis will focus on research of coarse mineral aggregates (river sediments) in laboratory and natural conditions, and to simulations of their granulometric and morphological changes (form, shape, roughness). Expected MR profile is a MSc degree in engineering sciences (water management, civil engineering, mechanical engineering) or natural sciences (applied physics). As a part of the doctoral thesis MR may participate in the activities of the UNESCO Chair for water-related disaster risk reductions (www.unesco-floods.eu), and other international research projects in the Research Institute for Geo and Hydro-threats (RIGHT). 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). Foreseen is the enrolment into the doctoral studies Built Environment.