

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*):

Žiga Turk, ziga.turk@fgg.uni-lj.si

3. Raziskovalno področje (*Research field*):

Računalniško integrirana graditev objektov / Gradbena informatika / eGradbeništvo
Computer integrated construction / Construction IT / E-Civil engineering

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 mladega raziskovalca/ko, ki niso navedeni v razpisu za mlade raziskovalce.

slo:

Mladi raziskovalec ali raziskovalka (MR) se bo usposabljal z raziskovalnim delom v okviru raziskovalnega programa E-Gradbeništvo ter Katedre za gradbeno informatiko.

Vključil se bo v raziskovalno skupino, ki je svetovno priznana in prepoznavna in ki razvija nova znanja na področju informacijskih in komunikacijskih tehnologij v gradbeništvu, informacijskega modeliranja zgradb, numeričnega modeliranja, komunikacijskih in procesnih infrastruktur, vodenja projektov, internetnih tehnologij, umetne inteligence ter na področju prenosa znanja, vse s ciljem prispevati k digitalizaciji gradbeništva.

Naloge MR bodo vključevale raziskovanje in razvoj metod za digitalizacijo gradbene industrije, s poudarkom na uporabi tehnologij, kot so BIM (Building Information Modeling), IoT (Internet of Things), gradbeništvo 4.0, umetna inteligenca in strojno učenje. Pričakuje se, da bo MR sodeloval pri razvoju pametnih gradbenih rešitev, ki bodo omogočale bolj učinkovito upravljanje gradbenih projektov, zmanjšanje presenečenj in stroškov ter izboljšanje kakovosti.

Mentor in raziskovalna skupina nudita odlično opremo in delovne pogoje za študij, raziskovanje, mednarodne izmenjave in povezovanje z inženirsko prakso v Sloveniji in po svetu ter odskočno desko za nadaljevanje kariere bodisi na strokovnem ali znanstvenem področju.

Pričakovani profil MR je magistrska strokovna izobrazba na področju gradbeništva, arhitekture, drugih inženirskih znanosti ali naravoslovja.

Od kandidata/-ke se pričakuje motiviranost, prizadevnost, ustvarjalnost, samoiniciativnost, odprtost za delo v skupini, navdušenje nad informacijsko-komunikacijskimi tehnologijami ter aktivno znanje angleškega jezika.

Obvezna rezultata MR sta opravljen doktorat znanosti in objava enega ali več z njim povezanih člankov v znanstveni reviji ter objave na strokovnih in znanstvenih kongresih doma in po svetu.

eng:

The young researcher (MR) will be trained through research work within the E-Civil engineering research program and the Chair of Construction IT.

The MR will join a world-renowned research group that develops new knowledge in the fields of ICT in construction, building information modelling, numerical modelling, communication and process infrastructures, project management, internet technologies, artificial intelligence and knowledge transfer, all with the aim of contributing to the digitization of construction.

The MR tasks will include research and development of methods for digitizing the construction industry, with a focus on the use of technologies such as BIM (Building Information Modelling), IoT (Internet of Things), Construction 4.0, Artificial Intelligence and Machine Learning. MR is expected to contribute to the development of smart construction solutions that will enable more efficient management of construction projects, reduce surprises and costs, and improve quality.

The mentor and research team offer excellent facilities and working conditions for study, research, international exchanges and networking with engineering practice in Slovenia and worldwide, as well as a springboard to pursue a career in either a professional or scientific field.

The expected profile of an MR is a Master's degree in civil engineering, architecture, other engineering sciences or natural sciences.

The candidate is expected to be well motivated, hard-working, creative, self-initiative, open to teamwork, enthusiastic about information and communication technologies and have an active knowledge of English language.

The mandatory outcomes of the MR are the completion of a PhD and the publication of one or more related papers in a scientific journal, as well as publications in professional and scientific congresses at home and abroad.