

**Director of the Institute for Nanomaterials, Advanced Technologies and Innovation
of the Technical University of Liberec
announces public competition for the following position:**

SENIOR RESEARCHER

**PROJECT OP VVV – INTERNATIONAL MOBILITIES AT THE TUL II
REG. NO. CZ.02.2.69/0.0/0.0/18_053/0017628**

Are you interested in developing your R&D activities within the framework of interesting international or national projects or within the framework of cooperation with important representatives of the application sphere? Make your plans a reality in the newly built building of [the Institute for Nanomaterials, Advanced Technologies and Innovations \(Cxl\)](#). Work with modern equipment, in a friendly environment, and with young team, in addition to the attractive environment of the Liberec Region. Get involved in the research at Cxl. You will be part of the [SW Architecture and Development Department](#).



Job description:

- scientific research activity of the applicant: field of robotics and construction – information systems, know transfer and development in the field of autonomous vehicle control, real-time 3D object recognition and their tracking, SLAM methods, use of the AR technologies

Required competence and expertise:

- publication activities in the above stated scientific activities
- preparation and realization of the R&D projects
- experience in the field of autonomous vehicle control, real-time 3D object recognition and their tracking, SLAM methods
- knowhow in the area of telemetry, sensory, real-time data acquisition and processing, utilization of the data from different LIDAR, RADAR, VIDEO sources, big-data tools knowledge welcomed
- a use of Augmented and Virtual Reality in the technical solutions and interactive systems, experience with the devices as HoloLens/Google Glasses/ZED Cameras appreciated
- advanced English language knowledge - minimum at level B2
- ability to share and disseminate know-how
- analysis of the current state of the solution
- high level of creativity and invention to solve demanding technical projects
- meeting the deadlines
- teamwork
- flexibility and responsibility
- independence, communication skills



Required education:

- completed university studies – specialisation in **engineering or mechatronics**
- min. PhD. Degree or a foreign equivalent in Mechatronics/Technical Cybernetics/Electrical Engineering – **earned 7 and more years ago**

Required criteria:

- The applicant must be a researcher from abroad, which means that in the last 3 years s/he has worked minimally 2 complete years outside of the Czech Republic as a researcher with a minimum working load 0.5, or was a student in a PhD. programme or its equivalent; Czech citizens are not excluded.
- H-index – minimum normalised value 8.5 calculated on the normalisation table, the source used for calculation of the h-index is either Web of Science or Scopus
- lead researcher or co-researcher of at least one international grant or national grant in the last 5 years
- in the last 5 years at least 3 publications inputs

Employment relationship:

- working load 100 %
- work contract will be concluded for a definite period from July 2021 for the length of 6 months, or by agreement
- the researcher is obliged to actively participate in a conference, seminar or workshop organized by the Technical University of Liberec once
- place of mobility: Liberec, Czech Republic

Date of commencement of employment:

- July 2021, or by agreement

Salary:

- wage rate C3 (R3) is based on TUL internal wage regulation
- minimum monthly wage rate, including the motivation component: CZK 95,000, the possibility of obtaining extraordinary bonuses in connection with the evaluation of the employee's performance

Working conditions and wage classification are governed by the Conditions of Employment, Internal Wage Regulation of the Technical University of Liberec, the Labour Code and the Regulations on Competitive Selection Procedures for Filling Academic Positions of the Technical University of Liberec and the conditions of project OP VVV – MEZINÁRODNÍ MOBILITY NA TUL II, REG. Č. CZ.02.2.69/0.0/0.0/18_053/0017628.



We offer:

- interesting, varied and responsible work
- 6-week leave
- flexible working hours
- university canteen
- child care, babysitting
- day care centre for toddlers
- possibility of accommodation in university lodging facilities
- language courses at the Internal Language School, training
- free sports activities (e.g. tennis, sauna, gym) in the university facilities
- free swimming in the Liberec pool
- special telephone tariffs

The following documents in Czech or English must be attached to the application for the competition:

- a) Copy of the diploma proving the completion of the PhD. Studies (officially certified copy of a PhD. Diploma shall be provided in the event of starting the employment)
- b) Structured CV following the Europass template
- c) Motivation letter of maximum two A4 pages describing aims for the research and innovation stay at the Technical University of Liberec
- d) Proof of publication activity – in the last 3 years minimally 2 publications. Required publications include professional contributions listed in the databases: Thomson Reuters Web of Science, Scopus or ERIH PLUS, and simultaneously belong to the categories of "article", "book", "book chapter", "letter" and "review".
- e) Certificate confirming the knowledge of either Czech or English – level B2 or higher or equivalent

In the first round of the selection procedure, the appointed committee will evaluate the presented documents. Subsequently, the committee will evaluate the required criteria completion and the aims for the work stay as presented in the submitted documents. All applicants will be notified about the decision not later than 40 working days from the end of the selection process.

The result of the selection procedure is published on the official notice board of the Technical University of Liberec (<http://www.tul.cz/uredni-deska/uredni-deska-tul/vyberova-rizeni-volna-mista>). Unsuccessful applicants may, within 5 days of publication, appeal to the Director of the Institute for Nanomaterials, Advanced Technologies and innovation and request a review of the results.



EVROPSKÁ UNIE
Evropské strukturální a investiční fondy
Operační program Výzkum, vývoj a vzdělávání



*The application with the above mentioned documents is to be sent not later than **January 17, 2021** by e-mail or regular mail to the address below:*

Technická univerzita v Liberci
Personální oddělení
Studentská 1402/2
461 17 Liberec 1

Contact person: Ing. Alena Šírková, Personnel Department
e-mail: volnamista@tul.cz

The above mentioned position was announced on December 16, 2020 on the official board of the Technical University of Liberec (<http://www.tul.cz/uredni-deska/uredni-deska-tul/vyberova-rizeni-volna-mista>), on the employment portal of the Ministry of Labour and Social Affairs (<http://portal.mpsv.cz/sz>) and on the EURAXESS portal: (<http://www.euraxess.cz/>)



CxI is the holder of the HR AWARD¹, therefore it has its own OTM-R Policy², resp. Recruitment document based on the principles of openness, transparency and merit criteria, which guarantees applicants correct CxI procedures in selecting the most suitable candidate for the position. At the same time, the CxI respects the recognition of qualifications according to the legislation in the Czech Republic, resp. according to Act No. 18/2004 Coll., but also the recognition of informal qualifications.

¹ <https://cxl.tul.cz/en/about-us/department-of-human-resources-development/hr-excellence-in-research>

² OTM-R Policy = OPEN TRANSPARENT MERIT BASED RECRUITMENT.

