Czech Institute of Informatics, Robotics, and Cybernetics
Czech Technical University in Prague

Position ID:	Tenure-track faculty at CIIRC
Position Title:	Tenure-track Faculty Positions in Robotics, Artificial Intelligence and Machine Perception
Position Location:	Prague, Czech Republic
Subject Areas:	Robotics, Artificial Intelligence, Machine Learning, Machine Perception, Computer Vision, Automated Reasoning, Natural Language Processing, Formal Methods, Cybersecurity, Multi-Agent Systems, Planning and Scheduling, Process Control, Production processes, Mechatronics, Intelligent Manufacturing, Manufacturing management, Industry 4.0 and related areas.
Salary Scale:	3000 - 4000 EUR (75000 -100000 CZK) gross per month
Starting Date:	2020/01/01
Appl. Deadline:	2019/10/01

The Czech Institute of Informatics, Robotics, and Cybernetics (CIIRC) at the Czech Technical University in Prague invites applications for three tenure-track positions at the rank of assistant or associate professor in the areas of Robotics, Artificial Intelligence, Machine Learning, Machine Perception, Computer Vision, Automated Reasoning, Natural Language Processing, Formal Methods, Cybersecurity, Multi-Agent Systems, Planning and Scheduling, Process Control, Production processes, Mechatronics, Intelligent Manufacturing, Manufacturing management, Industry 4.0 and related areas. The positions are established and co-funded by the EU Center of Excellence RICAIP - Research and Innovation Centre on Advanced Industrial Production. A welcome package consisting of EUR 20 000 for travel / consumables / minor equipment is provided to each position. There are eight weeks of vacation and flexible work schedules can be arranged.

Job Description

Candidates are expected to be, or be on their way to becoming, authorities in their own field of research, to establish their own research groups at CIIRC, and to complement and enrich the existing research programs at the institute. We expect you to:

- Develop, conduct and supervise high-quality academic research in one of the subject areas;
- Develop and teach courses at graduate levels, and inspire students through teaching and post-graduate supervision;
- Acquire external funding and collaborate with other researchers and specialists in academia or industry;
- Be an inspiring contribution to our staff.

The Tenure Track system offers young, talented academics a clear and attractive career path leading to a permanent appointment.

Requirements

Applicants should have the following qualifications:

- PhD degree in Computer Science, Artificial Intelligence, Applied Mathematics, Systems and Control, Mechanical/Electrical Engineering, or related disciplines.
- At least one year of experience as a postdoc/researcher/Assistant Professor, and experience outside the Czech Republic;

- Excellent track record in scientific research, as evident from papers in international and peer-reviewed conferences and/or journals;
- High motivation for implementing your own vision within the research environment CIIRC offers;
- Team player with the ability to clearly communicate and eager to look for and exploit synergies CIIRC and its network provides.
- Experience in acquisition of external funding is an advantage.
- Industry focus is an advantage.

Research Environment

The Czech Institute of Informatics, Robotics, and Cybernetics (CIIRC) at the Czech Technical University in Prague is a recently established research and teaching institute dedicated to cutting-edge research in computer science, robotics, cybernetics, artificial intelligence and related areas. The institute has been founded in 2013 and an important part of its mission is interdisciplinary cooperation, technology transfer and collaboration with advanced industry. The institute has over 200 employees conducting world-class research in a number of areas. It is the home of two ERC grant holders in AI and three large Excellent Teams projects combining Robotics, Machine Perception, Machine Learning, Computer Vision and Automated Reasoning. CIIRC's groups have obtained research funding from Amazon, Google, Facebook, Porsche, Skoda Auto and other companies and CIIRC teams regularly place high in competitions ranging from Amazon Alexa Price, to autonomous car competitions and world championships in Automated Reasoning. CIIRC is also the home of a National Competence Center for Cybernetics and Artificial Intelligence.

The list of leading CIIRC researchers includes (alphabetically): R. Babuska (robotics), Z. Hanzalek (scheduling and optimization), V. Hlavac (vision, robotics), V. Kucera (systems and control), L. Lhotska (AI, biomedical engineering, human-machine interaction), T. Mikolov (AI, learning), T. Pajdla (vision, robotics, geometry), J. Sedivy (NLP, learning), J. Sivic (vision, learning), O. Stepankova (biomedical engineering), J. Urban (AI, reasoning). The research groups are international and English is the official language at CIIRC. Foreign researchers, postdocs, graduate students and interns come from a variety of countries such as the USA, France, Japan, Netherlands, China, Austria, Russia and Turkey.

CIIRC is located in a modern building opened in 2017, located close to the Prague Castle and downtown, and with easy transport to the Prague Vaclav Havel airport. The institute is equipped with large computational infrastructure, robots, industrial testbed and other state-of-the-art research facilities.

Prague is the capital of the Czech Republic, considered one of the most beautiful cities in the world and attracting millions of tourists every year. It has the highest Quality of Living Worldwide ranking among the eastern European cities and over 160,000 foreign residents. It boasts a rich history and culture, long tradition of university education and scientific research, and a dynamic economy. The cost of living in Prague is about one half of the living costs in Amsterdam, Paris or New York. Based on the 2018 Global Peace Index, the Czech Republic is the 10th most peaceful and safe country in the world.

RICAIP

The positions are established and co-funded by the EU Horizon 2020 project [RICAIP](#) - Research and Innovation Centre on Advanced Industrial Production, no. 857306. RICAIP is the European Centre of Excellence in AI and industrial robotics established and hosted at CIIRC, funded by H2020 and ESIF in the amount of EUR 50 mil. for the period of 2019-2026. RICAIP will conduct research in the field of artificial intelligence, robotics for advanced industry, and related fields. The tenure-track positions are projected to strengthen the support for excellent foundational research at CIIRC underlying these areas.

Conditions of permanent employment

The tenure-track positions are offered for five years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer a permanent faculty position upon a tenure evaluation. A tenure mid-term evaluation will be held in year 3 at the latest. In exceptional situations the tenure process can be fast-tracked. Within the tenure-track period the following high-level performance indicators will apply:

- Obtaining qualification grade of CIIRC Senior Researcher or higher (https://www.ciirc.cvut.cz/wp-content/uploads/2017/10/CD00020-Career-Rules-CIIRC-Approved.pdf)
- Obtaining associate professor degree or higher
- Applying for ERC Grant with A/B score
- Establishing own research group

Information and application

To apply, please send an application with subject "Tenure-track faculty at CIIRC", including a detailed CV, a motivation letter, information on research plans and teaching experience, electronic copies of your top three publications and contact data of at least three references, to Eva Troppová, e-mail: eva.troppova@cvut.cz.

For further information about this position, please contact Eva Troppová or directly any of the leading CIIRC researchers.