Pro²Future - Products and Production Systems of the Future - is an industry-related and independent research centre in the field of artificial intelligence (AI) and cognitive / industrial ICT with a focus on cognitive products and production systems. These are supported by the areas of Perception and Aware Systems, Cognitive Robotics and Shop Floors, and Cognitive Decision Making. Further fields of activity of the centre cover mechatronic systems, embedded systems, pervasive computing systems and big data analytics. We are currently offering a

Research Position for PhD Candidates
within the topic "Cognitive Products"
Full-time (38,5hours/week) in double employment,
at Pro2Future GmbH in Graz (Campus Inffeldgasse of Graz University of Technology)

Project context

Digital twins, i.e., the comprehensive physical and functional description and simulation of a system, offer great potential in the context of building and designing automation systems. Together with the project partners Siemens AG Österreich and TU-Graz you will investigate the design and application of digital twins to allow for 'virtual' system safety validation & configuration, virtual commissioning, performance optimization, and even prediction of possible upcoming failures.

Job profile

The successful candidate will be engaged with developing digital twin technology utilizing state-of-the-art Siemens automation technology and combining and extending it with methods stemming from the field of industrial IoT and machine learning. Along the way you will be supported by co-workers within the research group and industrial and scientific experts. Within the scope of the project the candidate should also be willing to obtain a PhD under supervision of Univ.-Prof. Kay Roemer at the TU-Graz.

Your qualifications

- Completed master's degree in Computer Science, Electrical Engineering, Telematics, or similar
- Experience in industrial context advantageous
- Basic knowledge of programming languages and tools
- Basic knowledge of embedded systems within an industrial environment, electrical circuits, and components
- Basic knowledge of functional safety and industry standards
- High interest in the topics of digital twins and safety
- High interest in research and technology
- High motivation, self-initiative, and sense of responsibility, being a team player
- Fluent in English or German
- Flexibility, willingness to learn, openness and commitment

Our offer

- The opportunity to work in a highly qualified, international, young, and dynamic research team
- Collaboration in innovative, beyond-state-of-the-art research projects
- Support for your ongoing studies - in content and organisation - possibility for part-time
- Opportunity for personnel development in a learning and respectful environment
- Great emphasis on gender, diversity, and equal opportunities
- Flexible working hours, flat organizational structures, fun at work
- Dual employment at Pro2Future GmbH (approx. 70%) and Siemens AG Austria (approx. 30%)
- Full-time gross salary per month EUR 3,100.00 EUR

Pro2Future GmbH aims to increase the proportion of women in the research area - we are therefore particularly looking forward to applications from qualified women!

Katarina Milenkovic, MSc

I work in the comprehensive optimization, where we research novel approaches to extract knowledge over the product lifecycle.

Matej Vukovic, M.Inf.

Our results give an insight into the Key Influencing Parameters for Blast Furnace and Electric Arc Furnace Operations in the Metal Industry.

DI Ouijdane Guiza

I work on privacy respect and monitoring of human intensive assembly processes and cognitive line balancing support.

Flexi-Worktime | Free Coffee! | High-end Equipment | Home-Office | Internal Trainings & Study Opportunities | Structured Onboarding | Fresh Fruits | Restaurants & Mensa | Brand New Offices | Employee Events | Public Transport | Central Location | Food Allowance

To apply for this position, please send your application (including CV, supporting documents, letter of motivation), via e-mail to: jobs@pro2future.at. Pro2Future GmbH, z.H. Mag. (FH) Sandra Neuhold-Pauer, Altenberger Straße 69, 4040 Linz, Standort Graz: Inffeldgasse 25F, 8010 Graz, Tel.: +43 664 / 8889 2189).