

# Cognify your Products and Production Systems with Pro<sup>2</sup>Future



Pro<sup>2</sup>Future - 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 “Perception and Aware Systems“

Full-time (38,5hours/week), at Pro2Future GmbH in Linz (Campus of Johannes Kepler University Linz)

## Project context

Can we use AI methods to reduce energy and waste of industrial processes? This fundamental question is at the heart of a cooperative research project between academia and industry, here an internationally renowned industrial partner from the textile industry. The project builds upon an instrumented industrial process along with years' worth of data. Where together with domain experts and operators of these processes, you investigate how to apply deep learning-based time-series analysis and explainability techniques to support operators in their decision making.

## Job profile

The successful candidate will be engaged with understanding fundamental basics of domain-knowledge to talk and extract relevant implicit knowledge from operators, for you to not only apply deep learning methods properly upon the data but being able to communicate the decision-making process of the neural network to these operators by providing explainability methods. Along the way you will be supported by coworkers 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. Alois Ferscha at the JKU.

## Your qualifications

- A university-level degree in Computer Science, Information and Computer Engineering, Mathematics, or similar
- Experience and proficiency with programming languages and tools (ideally Python and TensorFlow but others are also welcome)
- 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
- 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**



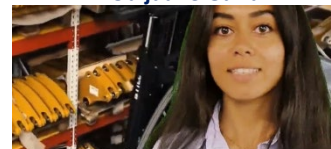
*I work in the comprehensive optimization, where we research novel approaches to extract knowledge over the product lifecycle.*

**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 Oujidane 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

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