

# 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 the position of a

## PhD Candidate (m/w/d) within the topic “AI for Legacy Systems Modernization“

Full-time (38,5 hours/week), at Pro<sup>2</sup>Future GmbH in Linz (Campus of Johannes Kepler University Linz)

### Project context

The RefactorAI project focuses on developing AI-integrated methodologies and tools to assist developers in the refactoring tasks associated with legacy systems modernization. The project leverages the strengths of AI in combination with existing modernization approaches, while incorporating human oversight to limit the drawbacks of AI, such as LLM hallucinations. By integrating AI into the refactoring process, we aim to significantly reduce the time and cost associated with modernization efforts, while also mitigating the risks of technical debt and system vulnerability.

### Job profile

Under the guidance of the Area Management, the candidate will be deployed in the entire portfolio of application-oriented research projects in the research area. Utilizing their expertise in software engineering, AI integration, and programming languages, the candidate will support the development and implementation of AI-assisted tools and methodologies for legacy system modernization. The candidate will have the opportunity to collaborate with an interdisciplinary team, including academic and industry partners, to meet project objectives. Therefore, prior experience in industry or in industry-related projects will enable the candidate to fully understand, communicate and manage the requirements set by industry in the research projects. The candidate will also have the opportunity to pursue a PhD, focusing on the intersection of AI and software modernization, under the supervision of Univ.-Prof. Dr. Alexander Egyed and a. Univ.-Prof. Dr. Paul Grünbacher.

### Your qualifications

- University degree in computer science, computer engineering, mathematics or similar
- Experience and practical knowledge of programming languages and tools
- AI and software engineering expertise is appreciated
- High affinity for applied research, interest in shaping future technologies
- Independent and reliable way of working, enjoy working in a team
- Fluent in English or German
- Willingness to travel between the Pro<sup>2</sup>Future GmbH locations
- 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
- 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 3,500.00



Pro<sup>2</sup>Future GmbH aims to increase the proportion of women in the research area - we are therefore particularly looking forward to applications from qualified women!

Jaroslava Huber, MSc



*My focus lies on the investigation of next generation AI Systems to increase occupational safety and accident prevention in industrial settings.*

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.*

Dr. Ouidane 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](mailto:jobs@pro2future.at). Pro<sup>2</sup>Future GmbH, z.H. Mag. (FH) Sandra Neuhold-Pauer, Altenberger Straße 69, 4040 Linz, Standort Graz: Sandgasse 34, 8010 Graz, Tel.: +43 664 / 8889 2189.