

# NUCLEAR INDUSTRY MISSION



**23-25 May, 2022**  
**Madrid and Santander**



Embajada de la República Checa en Madrid

# ADVACAM s. r. o.

ADVACAM produces advanced radiation imaging detectors and miniaturized and portable particle tracking cameras based on state-of-the-art Timepix and Timepix3 ASIC chip CERN technology. Highly integrated instrumentation and customized solutions are developed for a wide range of applications ranging from medical and nuclear industry sectors to space, environment and nuclear physics research. Innovative spectral-sensitive radiation scanning systems are used in the mining and aerospace industry, wide field-of-view directional gamma-ray cameras onboard autonomous drones, high-resolution beam characterization at particle accelerators, radiation source monitoring at nuclear facilities, X-ray and neutron imaging highly-sensitive inspection scanners for art paintings and material science research, mixed-radiation field characterization in particle radiotherapy, quantum-imaging dosimetry of space radiation in orbit for spacecrew onboard the international space station for NASA, radiation effects and wide-range space weather radiation instruments onboard satellites for the European Space Agency. The developed technology includes the necessary methodology, complex data processing and physics know-how. ADVACAM is a spin-off SME founded in 2013 from the IEAP at the Czech TU in Prague and the Medipix Collaboration based in CERN. R&D, applications and projects are carried out in cooperation with the IEAP CTU Prague and CERN as well as with Czech and European partners in nuclear science, radiation metrology and aerospace entities.

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# ALVEL, a. s.

ALVEL a.s. is a Czech private company, focused on nuclear fuel cycle and energy engineering services, technology development and material research. Among company's competences and capabilities are:

- Engineering services in the field of nuclear energy
- Nuclear fuel cycle and reactor physics and thermal hydraulic analyses
- Nuclear fuel behaviour assessment and optimization of core design
- Preparation of safety documentation and nuclear fuel cycle and energy production strategy management
- Design, testing and production of special dedicated equipment for NPP
- Development of special, custom made software
- Material irradiation and testing services
- Development and qualification of accident tolerant fuel claddings

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The logo consists of the word "ALVEL" in a bold, white, sans-serif font, centered within a dark blue rectangular background.

# Research Centre Řež s. r. o.

Research Centre Řež was found in 2002 and its focus is on research, development and innovations mainly in the nuclear energy sector, operating both the LVR-15 research reactor and the LVR-0 experimental reactor. We are operating two research reactors, set of experimental loops, microstructural and microchemical laboratories, NDE laboratory, neutron-physical and thermo-technical computation codes capabilities, design department, workshops and machinery park makes us able to participate in sophisticated research projects supporting current generation of power plants and participate in the development of new technologies for GEN IV, SMRs and the fusion. We offer large scientific infrastructure with modern equipment focused on research and development of materials and technologies for nuclear installations.

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# Huisman Konstrukce, s. r. o.

Contract manufacturer specialized in the production of heavy equipment. We gained in-depth knowledge of the energy market, mainly in oil&gas, wind, tidal and geothermal sectors. We manufacture equipment as contractor and sub-contractor for both OEM and EPC companies. Reliable and flexible partner in contract manufacturing able help you to produce complex or heavy equipment, a prototype or small series. With our capabilities, we are able to serve many markets. We have performed many infrastructural & civil projects and we are serving leading companies in the leisure industry too. We build components, such as tensioners, adjusters, traction and storage winches, manipulators, a variety of lifting tools and other critical components such as large hydraulic cylinders and load cells. We can deliver these products and components completely assembled, commissioned and tested.

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# NUVIA a.s.

Reliable EPC projects provider & supplier of devices and services in the field of nuclear power engineering, radiation protection, production of ionizing radiation detectors and radiometric systems, characterization of radioactive waste and nuclear facilities before decommissioning, chemical and radiochemical measurements, laboratory technologies and software development. Measurement solutions for nuclear facilities – solutions for nuclear power plants, fuel cycle facilities, and research centres working with ionizing radiation. Projects and products in fields of:

- RADIATION PROTECTION  
(Hot Spot Localization, Contamination Monitoring, Dose-rate Measurement)
- WASTE CHARACTERIZATION  
(Waste Measurement, Free Release Monitors)
- ENVIRONMENTAL RADIATION MONITORING  
(Land Contamination Mapping, Laboratory Analysis, Early Warning Network)

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# ÚJV Řež, a. s.

ÚJV Řež services support the safe and efficient operation of energy sources, in particular nuclear sources, fuel cycle issues (middle and back-end), and complex services in the management of radioactive and other waste products, and we undertake many other engineering projects, including design and operational service. In nuclear medicine, we are involved in the development, production, and distribution of radiopharmaceuticals and the construction and operation of positron emission tomography (PET) centres. For nuclear energy sector: Design and engineering, Safety and reliability services, Support of efficient operation, Fuel Cycle support, Support for operation and maintenance, Radioactive Waste and Decommissioning Services, Accredited laboratories

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NUCLEAR  
RESEARCH  
INSTITUTE

# ŽĎAS, a. s.

The joint-stock company ŽĎAS belongs among leaders of Czech engineering and metallurgy. For more than 70 years it has been a modern and reliable manufacturer of forming machines, equipment for rolled products processing, metallurgic products and pressing tools and supplier of castings, forgings and ingots. Among company's competences and capabilities are:

- Supercompactor HDP 2000 for low and medium radioactive waste
- Forging and casting for all types of power stations including nuclear power stations
- Off-shore industry
- Open-die forging unit
- Rolling mill for Zirconium
- Heavy industry
- Straightening and inspection lines for special steel bars
- Scrap metal processing equipment

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The logo consists of the letters 'ZDAS' in a bold, blue, sans-serif font. The 'Z' and 'D' are connected, and the 'A' and 'S' are also connected. The letters are thick and have a slightly stylized appearance.



# StemCon, a. s.

StemCon, a.s. has a comprehensive portfolio of services in the field of pipe systems and large machinery. This portfolio is mainly characterized by the diagnostics of pipe systems, which represent technological, water or sewage pipe networks. It also includes diagnostics of large rotating machines within power engineering systems. A set of activities based on specific diagnostic outputs is an integral part of the portfolio. This involves the preparation of detailed technical analyses and proposals leading to the integrity of the unit under investigation. Following the developed technical proposals, the company then ensures the implementation and supervision of the implementation of the proposed corrective measures.

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# SHERLOG SECURITY PIPELINES, a. s.

New generation of the long-distance

Pipelines transported media leakage detection and localizing system for liquids, gases and mixtures of liquids and gases

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# JettyRobot s. r. o.

JettyRobot is a uniquely designed track driven robot. It is designed to inspect, clean and repair ducts & pipes, especially in cases when dismantling the system is strenuous or impossible. JettyRobot centers itself in a duct or pipe and, thanks to its stability of movement, is able to use high pressure cleaning methods safely and efficiently. With its variety of cleaning methods, sensors, and other tools, as well as different kinds of working environments, JettyRobot is suitable for a wide range of industries.

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# Pipelines & Technology Alliance, z. s.

PIPELINES & TECHNOLOGY ALLIANCE, z.s. was created on the basis of unique solutions and many years of experience of selected technological Czech companies from the sector of water management, petrochemical, energy, chemical, telecommunications and IT industries. Alliance members complement each other optimally with their activities, products and solutions. In this way, they can make the most of the potential of their specific and unique know-how. Thanks to this joint, non-competitive and voluntary approach, this Alliance can offer its customers a wide range of products, services and solutions in diagnostics, protection, service and operation of all variants of existing and designed piping systems and related IT technologies. The Pipelines Technology Alliance provides clients with a synergistic approach and the potential of its members with a comprehensive and tailor-made solution under optimal conditions.

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# TAKTIK, s. r. o.

TAKTIK offers unique and value-added IT solutions and services focused on cybersecurity and IT infrastructure. Company helps enterprise customers secure their data, communication, fortify defense against cyber-attacks and optimize data center and cloud infrastructure. Among company's competences and capabilities are:

- Cyber range as a service (IT security testing and training)
- HCI (hyperconverged infrastructure)
- Data center optimization
- SCADA systems security

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# CzechTrade

CzechTrade is a Governmental business agency of the Czech Republic established by the Minister of Industry and Trade. Its main objective is to develop international trade and cooperation between Czech and foreign entities. The agency is also an official contact partner for those foreign companies looking for qualified Czech-based suppliers of products or providers of services. CzechTrade operates worldwide via more than 50 foreign representative offices. It offers wide range of comprehensive services, such as full information services, location of Czech suppliers, introduction to proven Czech suppliers, presentation of Czech companies at foreign trade shows, establishing B2B meetings.

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