

## PRESS RELEASE

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Laboratory for Machine Tools and  
Production Engineering (WZL) of  
RWTH Aachen University

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## Questions meet answers: Advice on digitalization and networking in production engineering

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## Virtual digitalization consultation hours with experts from WZL and IPT

In cooperation with WZL Aachen GmbH, experts from the Laboratory for Machine Tools and Production Engineering (WZL) at RWTH Aachen University and the Fraunhofer Institute for Production Technology (IPT) are now offering free virtual digitalization consultation hours. Every week, selected time slots are available for interested parties from research, industry and business, in which questions about digitalization and networking in production are answered based on the comprehensive know how of Aachen production engineers.

The experts from WZL and IPT help beginners and advanced managers at all management levels to answer frequently asked questions about everyday operations and provide them with further information and tips - or network them with suitable specialists.

The field of digitalization encompasses many topics and developments. For this reason, the possible contents of the digitalization consultation hours were limited to ten topic blocks.

### Topic blocks

- **Topic block 00:** Beginner dialog without focus
- **Topic block 01:** Digitalization and networking of existing (retrofitting) or new machines and production systems
- **Topic block 02:** Real-time capable process monitoring of manufacturing processes
- **Topic block 03:** Big Data, Edge and Cloud Computing Architectures
- **Topic block 04:** Data Science, Artificial Intelligence and Machine Learning
- **Topic block 05:** Distributed Ledger Technologies, block chain and Data Marketplaces
- **Topic block 06:** Digital business models, platforms and network effects
- **Topic block 07:** Digitalization of administrative processes and mobile office
- **Topic block 08:** Training opportunities for beginners and advanced learners
- **Topic block 09:** Subsidy opportunities and digitalization vouchers for companies
- **Topic block 10:** Cooperation opportunities with RWTH Aachen University

The experts will develop the above-mentioned topic blocks using practice-relevant case studies on selected incubators and production technology demonstrators. Interested parties have the opportunity to visit the following incubators on site:

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- **Incubator 01:** Predictive Process Monitoring and Digital Business Models at the example of a large series sheet metal processing process
- **Incubator 02:** Model-based real-time process analysis and control for safety critical engine components
- **Incubator 03:** Functional backtracing in the area of gear manufacturing based on process models and data
- **Incubator 04:** Adaptive production process chains through data- and model-based forecasts in toolmaking

Further information and registration options can be found on <http://www.basisseminare.de/sprechstunden/index.html>. Secure a time slot and arrange a 20 to 30 minute video call via Skype, teams or GoTo meeting.

### Laboratory for Machine Tools and Production Engineering (WZL)

The Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University has stood worldwide for more than 100 years for future-oriented research and successful innovations in the field of production technology.

Under the leadership of four professors, Thomas Bergs, Christian Brecher, Robert Schmitt and Günther Schuh, the WZL is conducting research in six areas - production technology, machine tools, production systems, transmission technology, production metrology and quality management - on the future-oriented design of production in high-wage countries. Together with industry partners from various sectors, the WZL develops solutions for a wide variety of production scenarios in both publicly funded and bilateral projects. These activities are being consolidated on the RWTH Aachen Campus in the Cluster Production Engineering.

### Fraunhofer Institute for Production Technology IPT

The Fraunhofer IPT develops system solutions for networked, adaptive production. Client and Cooperation partners come from the entire manufacturing industry - from aerospace technology to the automotive industry and its suppliers as well as tool and die making companies and the precision mechanics, optics and machine tool industries in particular, but also from the life sciences and many other fields. The IPT combines knowledge and experience in all fields of production technology. In the areas of process technology, production machines, production quality and measuring technology as well as technology management, it offers project partners and clients individual special solutions and immediately realizable results for the production of sophisticated components and High-tech products.

### WZL Aachen GmbH

WZL Aachen GmbH is a consulting and service company for production engineering. Its core competence is the economic application and exploitation of results from research and development in the fields of technology, assembly, automation, production technology and quality management. It advises companies on current issues, prepares concept proposals and transforms these into industrial solutions.

### Request a digitalization consultation:

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**Attachments:**

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