We Make Green Mobility Happen

chesco research factory

The Center for Hybrid Electric Systems Cottbus (chesco) is a unique center for research into hybrid-electric and electric systems for the mobility sector, i.e. aviation applications. The research factory is equipped with 150 machines and systems covering various areas of innovative manufacturing and inspection methods. Spread over three halls, the production and test areas cover an area of 5100 m². Chesco participates as partner in research programs as well as carrying out research and technology assignments for the industry on manufacturing, prototyping, system integration, digitization and test.

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chesco
Center for Hybrid Electric Systems Cottbus

Company

Research into hybrid electric propulsion systems, for aviation but also other mobility solutions. Focus on manufacturing (additive, cutting, heat treatment, inspection), system technologies, digital integration and (certification relevant) testing for advanced propulsion systems.

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Products and technologies

- Manufacturing, i.e. Additive manufacturing, heat treatment, advanced CNC technologies
- Inspection
- Agile development and design / manufacturing methods
- Digital twin, digital integration, digital passports
- Test and verification
- Electric systems, fuel cells, hybrid systems
- Competency in hybrid-electric systems

Strengths

With the scientific "backbone" of the BTU Cottbus university in aerospace, electrical engineering and manufacturing engineering technologies and our high-end modern infrastructure with unique equipment of test facilities, manufacturing technologies and digital environment our competent team focuses on cross-functional research, prototype and system development, and verification.

Outcome of the Mission

Straightforward contacts and concrete project proposals and offerings; Insights into the innovative and start-up (different scales) aviation industry; Networking with innovative aerospace / aviation companies, e.g. on electrical or hydrogen, fuel cell propulsion technologies, infrastructure, digitization, (airport) infrastructure providers.