

# BTU INITIATIVE FOR STRUCTURAL CHANGE

## CHESCO – CENTER FOR HYBRID ELECTRIC SYSTEMS COTTBUS



### OBJECTIVE:

Establishment of a worldwide unique center for research into hybrid-electric (aerospace) propulsion and systems:

- Interdisciplinary, forward-looking and environmentally oriented focus on the necessity of alternative propulsion and energy conversion
- Reduction of CO<sub>2</sub> emissions in aviation through innovative solutions
- Strengthening the regional economy, taking into account the social and economic challenges posed by the coal phase-out in the region of Lusatia (Brandenburg, Germany)

### CORE RESEARCH FIELDS:

- Research on hybrid electrical and electrical systems in the fields of aviation, rail, road and off-road
  - Electrical systems and components: Power generators, storage and distribution as well as drive components (converters, motors, etc.)
  - Development of optimized smaller gas turbines for the generation of electrical energy
- Establishment of a manufacturing center F-MERC (Fast Make Electrification Research Center) for the use of innovative manufacturing technologies including complete digitalization of all processes in development, manufacturing, operation and maintenance
- Establishment of a test center with state-of-the-art facilities for testing new systems and prototypes

### WHAT DO WE OFFER?

Open laboratory with minimal bureaucracy, fair costs and good networking opportunities for all potentially interested parties, such as regional, national, international companies, start-ups and scientists.

Are you interested?  
Then we would be pleased to hear from you:

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