

Coordinated Fundamental Research at NFL

- MWK Niedersachsen "Spitzenforschung – Energy Transformation in Aviation"
- DFG CRC 880 „Fundamentals of High Lift for Future Civil Aircraft“
- DFG CRC/TRR 40 „Technological Foundations for the Design of Thermally and Mechanically Highly Loaded Components of Future Space Transportation Systems“
- HGF DLR@Uni SuLaDi „Icing“
- MWK Niedersachsen „Metropolitan Aircraft“
- DFG Research Group FOR 1066 „Simulation of Wing and Nacelle Stall“

For further information please visit our homepage.



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NFL - Aeronautics Research Centre Niedersachsen

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Photos: DLR, LU Hannover and TU Braunschweig



NFL Research Building



Technische
Universität
Braunschweig

NFL
am Campus Forschungsflughafen



NFL - Aeronautics Research Centre Niedersachsen

A Cooperation of Technische Universität
Braunschweig and German Aerospace Centre DLR

Identity and Research Vision

The Aeronautics Research Centre is an institution of Technische Universität Braunschweig within its core research area Mobility. The NFL serves as a focus point of aerospace research in Niedersachsen. More than 30 scientists of Technische Universität Braunschweig, German Aerospace Center (DLR), Leibniz Universität Hannover, Physikalisch-Technische Bundesanstalt (PTB) and Fraunhofer group are members of the NFL. Our research vision is a sustainable, environmentally friendly, efficient, and safe aviation and aerospace.

Overall System Expertise

Our research site offers a unique combination of research aircraft, simulators, wind tunnels, and test rigs with the infrastructure of the Research Airport Braunschweig. It offers excellent conditions for research and development for participating scientists. Together, our members own the competences to create innovations for the future aircraft and air traffic system. They are able to conduct the whole spectrum from fundamental research to application-based technology developments and testing in aviation and aerospace.

Mission

- Initiating, planning, and coordinating fundamental research projects
- Supporting the long-term coordination process of joint research and development strategy
- Coordinating research infrastructure investment interests
- Promoting networking and scientific exchange
- Representing interests of NFL's members towards society, industry, and politics
- Promoting young scientists



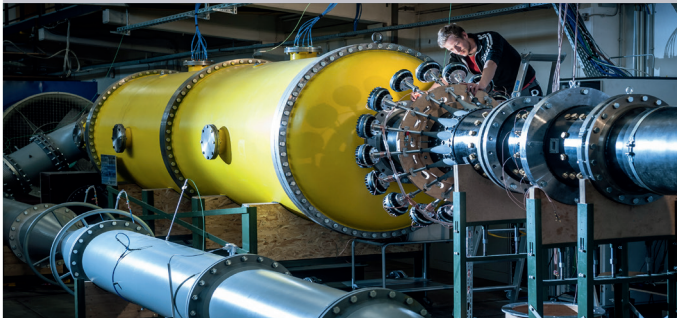
Flight Simulation Centre AVES, DLR Braunschweig



Research Engine IAE V2500-A1, TU Braunschweig



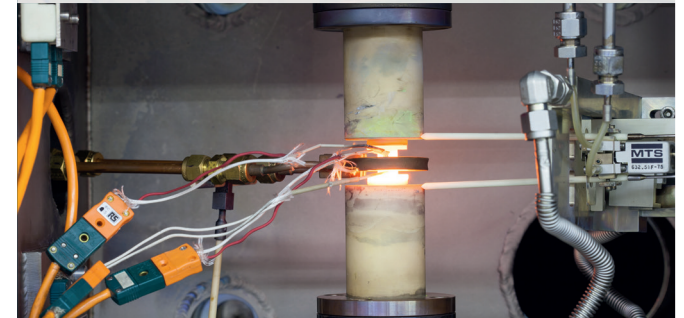
Dornier Do 128-6 "D-IBUF", TU Braunschweig



Aeroacoustic Wind Tunnel, LU Hannover



Unmanned Aircraft "ALADINA", TU Braunschweig



High-Temperature Compression Test in Vacuum