

USE & DISTRIBUTION RESTRICTIONS

BELL TEXTRON INC. PROPRIETARY AND COMPETITION SENSITIVE DATA

THE DATA CONTAINED IN THESE SLIDES IS NOT A DELIVERABLE UNDER ANY U.S. GOVERNMENT CONTRACT.

THIS DATA MAY BE USED INSIDE THE GOVERNMENT FOR EVALUATION PURPOSES ONLY. THIS DATA MAY NOT BE DISCLOSED, DUPLICATED, OR USED OUTSIDE OF THE GOVERNMENT FOR ANY PURPOSES WITHOUT BTI'S PRIOR CONSENT.

WARNING – THIS DOCUMENT MAY CONTAIN TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2778 ET SEQ., AS AMENDED) OR THE EXPORT ADMINISTRATION ACT OF 1979, AS AMENDED, TITLE 50, U.S.C. APP 2401 ET SEQ. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

DESTRUCTION NOTE – DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.



© 2021 BELL TEXTRON INC.
BELL, A TEXTRON COMPANY (BELL®)

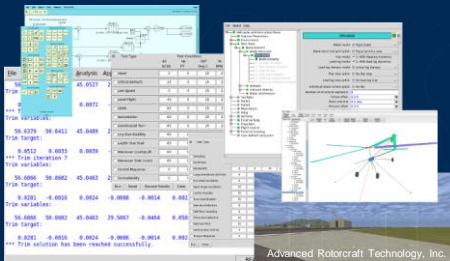


BELL

A TECHNOLOGY COMPANY REDEFINING
FLIGHT

ADVANCED TECHNOLOGY RESEARCH @ INNOVATION

© 2021 BELL TEXTRON INC



DIGITAL DESIGN INFRASTRUCTURE

MODELING // SIMULATION // ANALYSIS
// PROTOTYPING



→ High-performance computing (HPC) offering high fidelity and multidisciplinary aeromechanical analysis of vehicle configurations and flight conditions.

Computational fluid dynamics (CFD) for vehicle configuration / subsystem

→ development and heat / oil / flow analysis.

CFD coupled with computational structural dynamics (CSD) for acoustic analysis and

→ noise predictions.

Optimization of design / development / performance offering extremely precise

→ manufacturing.



ADVANCED TECHNOLOGY RESEARCH



ALTERNATIVE
ARCHITECTURES



NEXT GENERATION
DRIVE & ROTOR SYSTEMS



NEXT GENERATION
POWER DENSITY



NOISE
REDUCTION



FUTURE DIGITAL
AIRCRAFT



ROTOR
TECHNOLOGY



ICE
PROTECTION



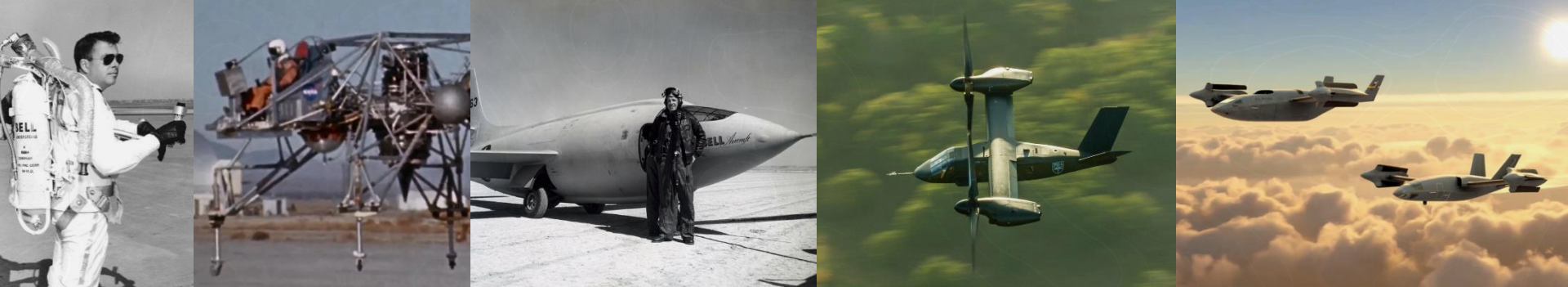
AERO-MODELING OPTIMIZATION



SURVIVABILITY

- Rapid technology development to technology readiness level (TRL) 6.
- Component development and optimization for future or legacy aircraft.
- Future vehicle conceptual design / advanced concepts.
- Advanced HPC software tools for modeling / simulation / analysis / prototyping.
- Advanced capabilities for preliminary design.



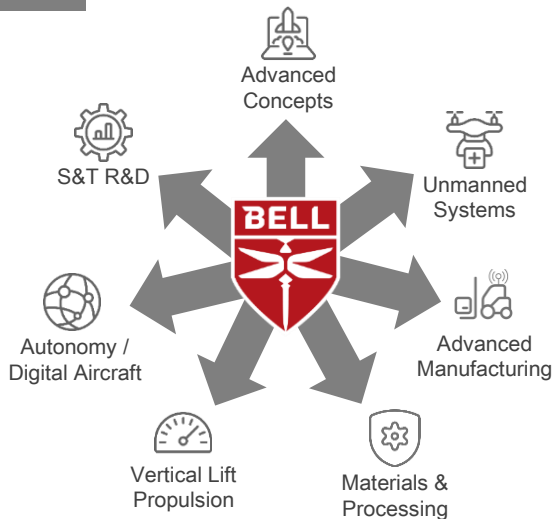


INNOVATION

At Bell, we are defining the future of vertical lift. From tiltrotor technology to innovative commercial platforms, we've pushed the boundaries of flight for more than 85-years. As pioneers of the revolutionary Bell X-1 rocket-jet, tiltrotor technology and more, innovation is in Bell's DNA.

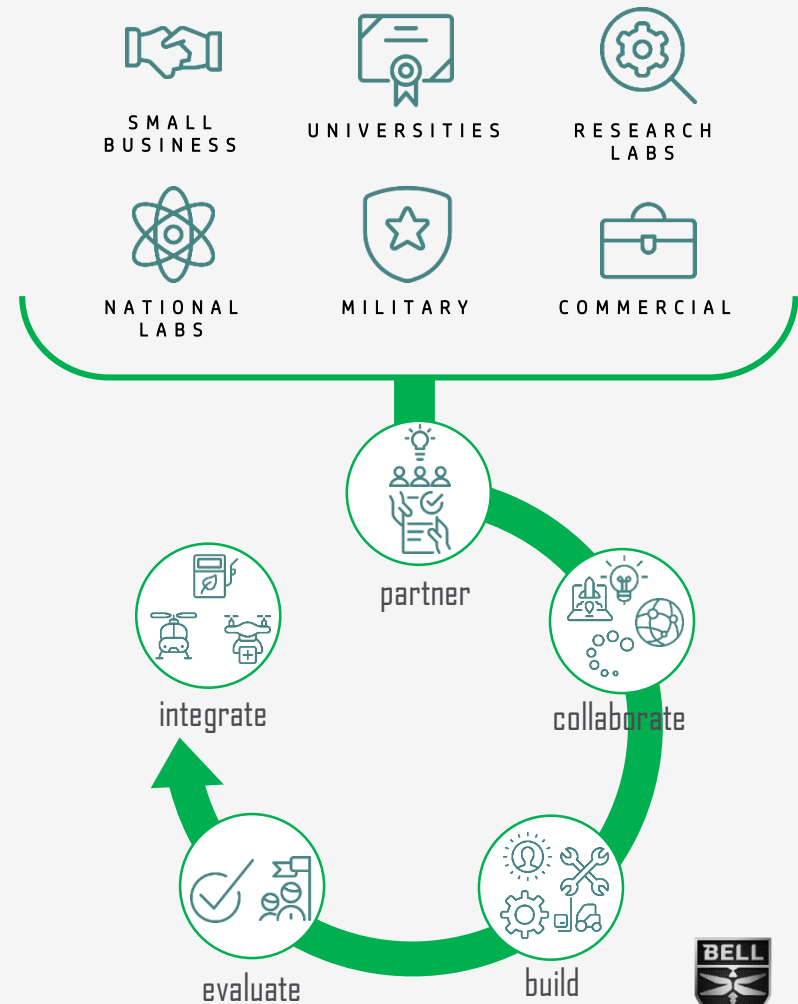
Today, our digital infrastructure, connectivity, and tools have made it capable to advance and build aircraft, systems, and advance manufacturing for the future.

This lineage has been showcased with the development of future vehicles and capabilities, and advancement of legacy vehicles and subsystems for the future.



RAPID & DIVERSE COLLABORATION

- US Army CRADA to develop a small unmanned aerial system (UAS) from design to fully-autonomous flight in 10-months.
- US Air Force Seedling Contract to bring a critical simulation / modeling capability in 9-months.
- US Army SBIR partnership with small business to use additive manufacturing for superior performance with applications into future aircraft.
- University Capstone Project to design, build, and test new forms of propulsion on a UAS.



THANK YOU

Bell Proprietary and Competition Sensitive

©2021 Bell Textron Inc.

ANDREA CHAVEZ

817.280.5858 // achavez@bellflight.com



JONATHAN JONES

817.247.6796 // jjones02@bellflight.com