



## **CERTIFICATE OF COMPLETION**

Has been awarded to

**Niall Christopher Bannigan**

For the successful completion of the  
AIAA Continuing Education Course

**Turbomachinery for Emerging Space  
Applications: Liquid Rocket Propulsion  
– On-Demand Short Course**

**February 2, 2023  
Online (24 CEU Hours)**



Jason D. Cole  
AIAA Director, Education