Dr. Timothy J. Horn is an Associate Professor in the Department of Mechanical and Aerospace Engineering at North Carolina State University, with joint appointments in Nuclear Engineering and Materials Science and Engineering. He serves as Director of the Consortium on the Properties of Additively Manufactured Copper (CPAC), Director of the Powder Materials Manufacturing Facility, and Director of Research for the Center for Additive Manufacturing and Logistics (CAMAL). Dr. Horn's research focuses on the development of metal materials and process science for additive manufacturing, with emphasis on powder-bed fusion, in situ process monitoring and control, and structure–property relationships in AM components. He has led multiple alloy development efforts for government and industry, with extensive experience in gas atomization, LPBF of steels and refractory alloys, and qualification of materials for critical applications. A recognized leader in additive manufacturing, Dr. Horn is a U.S. Fulbright Scholar and recipient of the DARPA Young Faculty Award and DARPA Director's Fellowship. He is actively involved in national manufacturing initiatives and professional societies, including leadership roles with the Metal Powder Industries Federation, ASM International, and major technical conferences in materials and manufacturing.