



**Dr. Randall 'Ty' Pollak**

Director, Research & Development  
Universal Technology Corporation



[tpollak@utcdayton.com](mailto:tpollak@utcdayton.com)

<https://www.linkedin.com/in/typollak/>

+1 (937) 306-6140

Ty leads the Research and Development Division and 3D Innovation Lab (3DI Lab) for Universal Technology Corporation (UTC), an employee-owned small business with over 200 employees across multiple locations and business units, with headquarters in Dayton, Ohio. The 3DI Lab ([www.utc3di.com](http://www.utc3di.com)) specializes in metals and multi-material additive manufacturing and 3D printing, through innovative research projects (both internally and externally funded), product development, and commercialization of resulting products and services.

Prior to leading the consolidation of UTC's AM/3DP activities into the 3DI Lab in 2017, Ty was the Associate Director for UTC's Materials and Manufacturing Division, where he managed multiple indefinite delivery/indefinite quantity (ID/IQ) contracts totaling over \$100M in combined ceiling. In this role, Ty supervised more than 20 scientists, engineers, and technicians supporting research at Department of Defense facilities, and managed more than 40 different subcontract efforts in advanced materials and manufacturing across industry, universities, and other R&D organizations.

Before joining UTC in early 2015, Ty retired after more than 20 years of service in the United States Air Force, retiring as a Lieutenant Colonel. Over the last 4 years of his military career, Ty served as International Program Officer for Materials & Nanotechnology at the Air Force Office of Scientific Research (AFOSR), and Deputy Commander for the Air Force Research Laboratory's international office in London, UK. In this capacity, he initiated and managed 76 basic research projects across 16 countries, including initiatives in additive manufacturing and materials modeling, and liaised with Department of Defense and other government/non-government agencies to enhance collaboration between the US and international science and technology communities.

Previous experience also includes serving as Assistant Professor at the Naval Postgraduate School in Monterey, Lead Engineer/Analyst for multiple Air Force operational test and evaluation programs, Section Chief in AFRL Materials and Manufacturing Directorate, and staff assignment at HQ Air Force Materiel Command. Ty has a Ph.D. in Materials Science and Engineering and an M.S. in Systems Engineering, both from the Air Force Institute of Technology. His dissertation research focused on small sample test strategies for validating materials performance in the ultra high cycle fatigue regime. His B.S. Aeronautical/Astronautical Engineering is from the University of Illinois.