### Inkbit, LLC.

# inkbit

Medford, MA http://www.inkbit3d.com/ Phone: (781) 819-4829



Solicitation: Real-Time Metrology and Feedback Control for Additive Manufacturing

### DARPA SBIR Sponsor SB163-004 Topic Number Vision System Primary Innovation Printing Platform Secondary Innovation

# SINCE ITS FOUNDING IN

- **3** SBIR Awards
- 32 Employees
- SB Socioeconomic Category 14 Patents Awarded

## Real-Time Metrology and Feedback Control for Additive Manufacturing

There is a strong need to transition additive manufacturing processes from rapid prototyping to full-scale manufacturing. However, current additive processes lack robustness and scalability.

Under this SBIR, Inkbit developed and is now commercializing an additive manufacturing platform with integrated real-time metrology and feedback control which significantly increases the quality of 3D printed parts and reduces the risk of critical print defects.

This is the first additive manufacturing system to provide vision-based closed-loop feedback control of part geometry.

### **IMPACT TO THE MISSION**

3D printing simplifies the supply chain and enables the immediate production of mission-critical items near or at the point of use.

#### **BEYOND PHASE II**

Inkbit is growing rapidly. Inkbit raised a \$30M Series B fundraise in July 2021. Inkbit also recently won a \$1.7M contract with the US Air Force to deploy its 3D printers for rapid manufacturing of spare parts and other needs. The headquarters has grown from 6,000 sqft. to 38,000 sqft. to support their expanding commercial, R&D, and manufacturing teams.

This research was developed with funding from the Defense Advanced Research Projects Agency (DARPA). The views, opinions and/or findings expressed are those of the author(s) and should not be interpreted as representing the official views or policies of the Department of Defense or the U.S. Government." (Approved for Public Release. Distribution Unlimited 08/10/21)