

NASA Statement of Work – Printer rental

05/03/2024

1.0 Scope of Work

The vendor shall deliver additively manufactured blocks of specified dimensions using NASA Glenn Research Center (GRC) supplied powders. The alloys that will be provided should be treated as intellectual property and is currently under a provisional patent. This is a research and development effort and the printed specimens and components under this agreement will be accepted on a best-effort basis. The design files and remaining alloy powders should be safeguarded at by the vendor and upon request, the alloy powders and all electronic or paper files pertaining to the designs shall be returned to GRC.

2.0 Deliverables

1.) GRX-810 powder (700lbs) will be supplied to the vendor to be printed on the EOS M280 for the next 3 months using specified parameters.

From the powder optimized build parameters will be determined. Then cuboid mechanical test specimen blanks 3.4" tall by 0.63" by 0.63" wide will be built and supplied to GRC. Additional samples will be made during the same build to act as a witness specimen.

From the powder and build parameters 4 cuboid mechanical test specimen blanks measuring 3.4" x 0.63" x 0.63" will need to be built and supplied to GRC. A witness specimen (0.5"x0.5"x0.5") will be supplied from the same build. After this build, CAD files of components and other dimensions will be provided for future prints.

Please contact Tim Smith at Ph. (937)210-2611, or email timothy.m.smith@nasa.gov concerning any technical questions regarding this order.

