

09 September Austere 3D Printing Q&A Telecon Questions from Slido

Can two or more organizations combined together and submit a solution? What TRL level of the technology is required?

Will portable and thermoplastic 3D Printers be considered for this initiative?

What are the typical dimensions of most of the parts that will be 3D Printed?

Will the agency accept 3D Printed parts for review for this project?

Will training be required onsite or remotely?

what types of metals will need to be 3D Printed?

What types of thermoplastic materials will be 3D Printed?

What type / kind of parts will be produced with these systems?

What are the structural performance constraints or objectives? What are the material limitations or preferences?

Will parts be designed at the point-of-use or chosen from a preexisting list / catalogue? How quickly do parts need to be fabricated?

Will the systems be required to operate while in motion? What are the temperature and humidity ranges for the expected environments?

What are the power limitations or preferences (110V, battery, etc.)? What kind of 'ruggedness' testing would be expected?

Can material be stored in a climate-controlled environment prior to use? Are there shelf life considerations for materials required to make parts?

What depth of training is desired for operators to receive prior to being a qualified user?

What is the system weight limits for the small / moderate solutions?

For single SOF Operator portable systems: 1. What are the Primary requirements (I.e. Size, weight, cost)

Printer "like to have's (I.e. setup speed, noise level, material options)

Describe survivability requirements (Extreme temps above or below x deg. wet environments, drop/shock survivability)

Will SOCOM retain the IP created during the development of SOCOM specific applications?

Who from SOCOM will participate in the virtual assessment? Only DoD personnel or will the panel also include contractors / industry?

Are contractors required to complete the full 5-phase program to be eligible for funding?

Are organizations / projects eligible to receive funding after the virtual 1x1 demonstration?

Will SOCOM evaluate additive manufacturing software solutions, or is the Assessment Event only applicable to 3D printing hardware solutions?

Will Portable Metal 3D Printers be considered like www.sisma.com

Can we provide samples of parts from the 3D Printers we plan to propose?

What are the top 5 thermoplastic materials that will be required for a field operational 3D Printer?

What is the proposed budget for an individual 3D Printer

Are the solutions focused on metals or polymer applications?

What are the printing environments they to be considered?

What materials are they interested in? Are the materials different for the small personal machine and the C-130 device?

What are the power and size limitations for each solution?

What type of technology readiness are they looking for?

Any restrictions on inert gas supply?

Will PEEK or ULTEM thermoplastics be a requirement for the 3D Printers to be considered for this project?

Will there be any requirement for 3D Scanning of objects to be digitized to be 3D Printed and create a digital inventory of parts for future fabrication.

Will a 3D Printer that can be operated in the Cloud be considered?

IS there a budgetary number associated with the types of printers that will be procured for this project?

What is the primary problem you are trying to solve? Machine parts, construction of structures and buildings?

Use of advanced polymer construction materials that can be obtained locally and absorb small arm fire and kinetics?

Is this for a FOB, a JSOTF or operations on a main operating base?

Are technologies that keep intellectual property for 3D printed parts safe and unable to be used in the case of captured 3d printer being considered?

Are technologies that securely share 3d printing files with forward deployed 3D printers being considered?

Will you be looking to buy machines or services?

What Division & Branch (JX???) thru Crane is MRTC managed?

Is the technical data for the parts being manufactured owned by MRTC?

WHAT PRINTERS ARE IN USE TODAY

Will you evaluate large scale 3D printing with concrete? i.e. the ability to rapidly print base defenses, barracks, barriers, fighting positions, etc.

Would this program consider technologies for producing 3d printing feedstock (metal or plastic powder/filament) in the field?

WHAT ARE THE ROUGH XYZ DIMENSIONS OF MOST OF THE PARTS TO BE FABRICATED?

What level of quality control does MRTC currently do for 3D printed parts?

What 3D printers do you currently have in the field? This will help to bound the requirements

Will non us manufacturer 3D Printers be considered?

What is the technology gap from current commercial systems to SOF needs, are there failures occurring with commercial systems due to durability, vibration, etc?

How relevant is remote printing and easy access to 3D printers for the staff?

What are the minimum feature sizes you would like to achieve?

Is the capability for a FOB, a JSOTF or a supporting base?

What about 3D construction printing and advanced polymer materials that can absorb small arms and kinetics

Are there requirements to print air-frame parts that are certified?

Will energetic material printers be considered?

Are material production technologies of interest? For example in situ production of metal/plastic powder feedstock to avoid hazmat shipping for metal powder.

Should a prototype system be marketable, is there an envisioned target number of units to be procured in the future?