AM for Defense Applications

Additive Manufacturing (AM) enables modernization and more capable defense systems through the fabrication of highly optimized and complex parts. It also enables improved readiness by providing an alternative route to manufacturing hard to source spare parts and parts at the point of need, e.g. by battle damage repair or temporary spare parts manufactured on-site. Because of this, the defense industry has taken a lead in advancing and maturing this technology. However, the existing commercial standards, military standards, airworthiness standards, and certification practices may be difficult to apply or are not relevant to AM parts. Thus, new standards and practices need to be developed to facilitate broader and more rapid adoption.

This symposium covers the application of AM for the defense industry with respect to:
- Material and process considerations for specific applications
- Applicability of existing military standards for AM applications
- AM for spare and/or hard to source parts
- Rapid battle damage repair or temporary spare parts manufactured on-site
- Future of AM defense industry in the digital age