

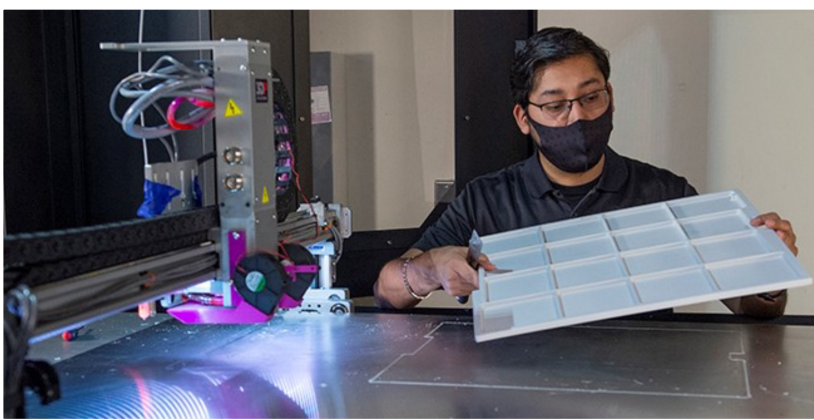


Mission Training Complex

OVERVIEW

The Mission Training Complex, or MTC, is a one-stop shop for development of mission training resources. We can manufacture mockups from the level of individual assets to full-scale environments. Simulation environments and models can be developed and maintained as both integrated Full Training units or Standalone Trainers. We can develop a range of virtual mockup training assets ranging from touchscreen-based trainers to virtual mission assets and environments via XR technologies developed at a fraction of the cost of physical class III hardware.

The MTC also accommodates Human Factors testing, a simulated Joint Station LAN, video interfaces, and payload systems command and telemetry training developed to support science operations.



EXPERTISE

- Requirements-based simulation and model environment development
- Integrated end-to-end simulation model testing
- Lower cost, 3D-manufactured, mockup development and maintenance
- Human Factors for experiment hardware
- Payload support systems commanding
- XR (virtual and augmented) training assessment

INNOVATION

- 3D printer and scanner for mockup development
- Payload Joint Station LAN
- Virtual rack trainers
- Simulated payload support systems interfaces



**A facility of Marshall Space Flight Center's
Payload and Mission Operations Division**