

Weapon systems technologies

DST applies the science and technology of sensors, intelligent processing and electromagnetic interactions to weapons and tactical systems to deliver a warfighting capability edge.

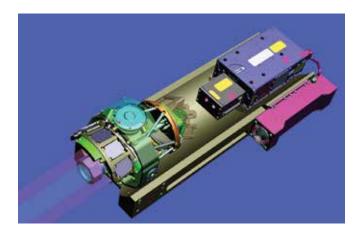
DST researchers develop technologies across three time horizons to enhance (1 to 5 years), shape (5 to 15 years) and transform (+15 years) ADF warfighting capability.

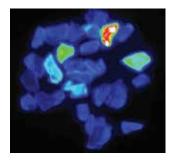
Significant programs

- · Collaborative and cognitive weapons
- · High speed weapons
- · Directed energy weapons
- · Weapons technical intelligence
- · Counter improvised threats
- Current and planned force weapons.

Partnering opportunities

- Weapon seekers and tactical sensors multiband/multi-sensor systems, novel sensor characterisation and evaluation, quantum sensing, navigation sensors.
- Sensor processing and algorithms radar, image and EO/IR seeker processing and algorithms, data fusion, seeker modelling, scene generation and modelling, IED detection.
- Collaborative weapons and autonomous response weapon guidance and control, machine learning and intelligence, dynamic path planning and teaming, task and resource allocation.
- Electromagnetic effects characterisation and control surface current detection and effector design, characteristic mode analysis research, control measures and protection against EM, high power EM.







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