



WINNING PROPOSAL

Generating Local
Magnetic Fields Through
Superconducting Loops for
Safe Life on Mars

DARPA Grant Awarded
in Summer 2018

GRANT WINNER

Victoria Coverstone, Ph.D.
Aerospace & Mechanical
Engineering

University of Miami

“My postdoc introduced me to Polyplexus. I was skeptical but was drawn in by the opportunity to see curated information that I would not ordinarily see.”

HOW

Collaborating Across Areas of Expertise and Institutions

Posted 10 Evidence and 6 Conjecture μ Pubs, complemented by 20 Evidence and Conjecture μ Pubs from Plexors at 5 universities

Combined evidence spanning 7 diverse technologies, including neuroimaging, geology and satellite design



WHAT

Disrupting the Status Quo

Accelerating current U.S. timeline for Mars missions

- NASA 2020 unmanned
- SpaceX 2024 manned
- NASA ~2030 manned

Note: Putin asserts Russian-manned missions departing in 2019

WHY

Powering Research Sponsors

Benefits DARPA research in:

- Wave-matter interactions
- Space access, surveillance and environments
- Force protection