

# NAVSEA PEO Aircraft Carriers

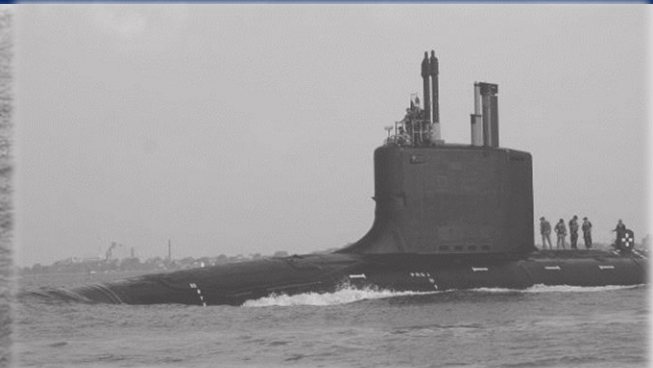
Russ Knowles

russell.p.knowles1.civ@us.navy.mil

SBIR/STTR Technology Manager

PMS 378

**12/5/2023**



Aircraft Carrier technology areas should focus on afloat platform integration of mission systems that deliver warfare capability or ship systems that provide support infrastructure.

Examples of technology challenge and opportunity areas should consider material, mechanical, electrical or other solution spaces that manage the domains of:

## Electrical power

- Efficient distribution
- Safe storage
- Quality at demand point

## Thermal energy

- Heat generation
- Heat dissipation
- Heat transfer

## Acoustic resonance

- Structure borne noise
- Equipment noise attenuation
- Absorption or insulation

## Signal separation

- Internal and external transmitters
- Internal and external receivers
- Internal and external point sources
- Internal and external array sources

## Threat reduction

- Internal and external discrete vector or indiscriminate swarm counters
- Internal and external conventional and non-conventional counters

## Waste management

- Limitation at on-load
- Minimum generation at sources
- Maximum disposition at treatment points
- Limitation at off-load

## Data capture and visualization

- Capture by drones, fixtures or handheld devices
- Scanning and rendering digitally
- Scaling and modelling digitally
- Transferring data or visualization to other digital systems