N857
NAVY EXPEDITIONARY COMBAT BRANCH

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Branch Head

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Requirements Officer
Responsibilities

Requirements and Action Office for Expeditionary Warfare supporting:

- All Navy Expeditionary Combat Command (NECC) forces
- Explosive Ordnance Disposal (EOD)
- Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (CREW)
- Non-Lethal Weapons (NLW)

Recognition of Navy contribution to Irregular Warfare

- “A Balanced Strategy” by SECDEF Gates, *Foreign Affairs* (Feb 09)
- Office of the Secretary of Defense 2010 Defense Budget submission
- 2009 Navy Strategic Plan (NSP)
- 2008 Center for Naval Analysis C-IED Study

Force Agility to Achieve Global Engagement
Where does NECC need your help?

- **Sensor Technology**
  - Unmanned Systems (UAV/USV/UUV)
    - More capability in a smaller package in more varied operational environments
    - User friendly design to capture the skills of technology generation
    - Inter-operable; enhancing common operating picture and knowledge
    - Energy efficiency
  - Standoff Detection
    - Persistent ISR applications
    - Fixed-site, Force Protection, Proliferation Security Initiative, EOD
    - Counter IED and Chemical, Nuclear, Biological
  - Enhanced Situational Awareness

- **Integrated Armor and Lightweight Personal Protection**
  - Layered and adaptive protection across spectrum to defeat multiple threats without significant increase to personnel and platform footprint
  - Ground vehicles, green water-borne platforms, work sites
  - Plug and play, able to shed armor when not needed

- **Adaptive, Deployable Networks**
  - Incorporate wireless technology for the battlefield
  - Optimize logistic footprint
  - Interoperability with the Intra-Agency, local governments, NGO’s

- **Enhanced Cultural Awareness and Language Translation**
  - CBTs and field-employable multi-language translation tool
  - Training enablers to facilitate Security Force Assistance in multiple operating areas
Where does EOD need your help?

➢ **Unmanned Systems**
  - UUV/UAV/Ground Robotics communications enhancement
  - Underwater vehicle sensor and neutralization technology
  - Energy Efficiency
  - Ground Robotics advancements
    - Reduce time-on-target
    - Light weight systems for agile, dismounted ops without capability loss
    - Enhance manipulation capability
    - Extend operation life with advancements in power generation/supply

➢ **Personnel Protection**
  - Ultra light and agile body armor
  - Next generation bomb suit technology

➢ **Standoff Detection and Disruption**
  - Determine the threat before going into harms way
  - Enhance survivability
  - Defeat the Network*
  - Spectrum of Effects: Non-kinetic, low-order, high-order neutralization

➢ **Forensics**
  - Radiographic systems
  - Post Blast investigation
  - Wireless transmission/reception*
Where does CREW need your help?

- **Antennas and Amplifiers**
  - Environmental efficiency
  - Size and weight
    - Dismounted applications
    - Future combat vehicle families
    - Fixed site applications
  - Energy efficiency

- **Receivers/Processing/Modulators/Integration**
  - Open architecture to enable continuous system enhancement

- **Common Timing And Electromagnetic Compatibility**
  - Interoperability across DoD Electronic Warfare systems
  - Develop systems permitting span of C5ISR capabilities

- **Additional Technology, Information, Recommendations**
  - [http://www.onr.navy.mil/02/BAA](http://www.onr.navy.mil/02/BAA)
  - [https://bids.acqcenter.com/jieddo/Portal.nsf/Start?ReadForm](https://bids.acqcenter.com/jieddo/Portal.nsf/Start?ReadForm)

CREW is transitioning to N2/N6
Where does Navy NLW need your help?

- Stand off vessel stopping
- Stand off vehicle stopping
- Reducing the size and weight and cost of directed energy systems
- Integration of directed energy systems into shipboard platforms as part of their self defense systems
- Determining contact intent
Partnering with Industry to Support the Force

HELP US HELP YOU…!

Your technological efforts to assist our needed capability advancements directly support Expeditionary Warfare’s Resource Strategy for Programs!
# Points of Contact

## NECC capability development:

<table>
<thead>
<tr>
<th>Service</th>
<th>Contact Person</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>MESF</td>
<td>LCDR Nakia Cooper</td>
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## JCREW/JSEOD capability development:

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<tbody>
<tr>
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## Non-lethal Weapons capability development:

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<tbody>
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* Capability Sponsors