WE ARE

An affiliation of Huntsville’s unique abilities, technologies, facilities, labs, programs, academia and government motivated to connect cutting edge solutions with Special Operations Forces across DoD/USSOCOM, National Intelligence Programs and Interagency.

OUR PURPOSE

To inform and connect members to new markets, contract vehicles, requirements, resources, funding and partnerships across Huntsville’s Industrial/Military/Academic/Government complex to the enhancement of the Special Operations Forces (SOF) Enterprise.

OUR METHOD

The Huntsville SOF Network promotes the common interests of Huntsville’s Industry/Military/Academic/Government complex and the Special Forces Operations by hosting agency specific forums, deploying tight working groups to match requirements to resources and informing the Global SOF Network of Huntsville’s capabilities. Fundamentally, HSOFN informs, connects and delivers.
• Working Groups
  • USSOCOM Working Group (WG)
  • National Intelligence Program WG
  • Interagency WG
• Committees/Events
  • Talk SOF
  • Special Operation Forces Industry Conference
• Website/Social Media
• Forums
• 2nd Annual HSVSOFN Golf Charity Event
• Receptions:
  • “TIG” Bengazi October 2017
  • (Eric O’Neill) November 2017
• Bullets Bourbon BBQ
SOF Enterprise - Needs

Robots, Robotics, autonomous flight, computer systems, data-to-decisions, information technology, electronic warfare, sensors & processing, unmanned systems, air platforms, cyber, mechanics, automation, autonomy, additive manufacturing, power & energy, thermodynamics, flight control and instrumentation, air navigation and guidance, aircraft, mobility, aerodynamics, patrol and reconnaissance, hydraulics and pneumatics, cied, cartography and photography, c4, surface effect vehicles, experimental aircraft, armor, undersea warfare, optics, radar, analytics, software, vehicle intelligence, communications, integrated optics, gps, radiofrequency, geography, isr, antiaircraft defense, human factors, human systems, human-machine-interface, bionics, neural interfaces, neuroscience, wearables, chemical processing, combustion and ignition, explosives, hygiene and sanitation, testing, audio-video, modelling and simulation, ballistics, metals and alloys, nanotechnology, military intelligence, soldier systems, augmented reality, electrooptical devices, fires, guided munitions, target acquisition, marine engineering, oceanography, enterprise, gaming, training, virtual reality, human performance, containers and packaging, health and safety, helicopters, social media, fuels, combat vehicles, materials, propulsion, attack and fighter aircraft, air-launched guided missiles, rockets, structures and buildings, artificial intelligence, medical, infrared (ir), lasers and masers, biotechnology, microbiology, internet-of-things, adhesives, seals and binders, manufacturing, advanced electronics, escape, rescue & survival, 3d printing, voice communications, textiles, marine navigation, acoustics, directed energy weapons, electric and ion propulsion, signature management, safety engineering, antennas, ground and sea platforms, radios, cbrne, counter-WMD, countermeasures, industrial chemistry, unconventional warfare, rotary-wing, amphibious vehicles, composite materials, over-the-horizon, nuclear, irregular warfare, electromagnetic, escape, rescue & survival, submarine engineering, logistics, naval surface warfare, weapons, photography, telemetry, geology and mineralogy, ceramics, refractories and glass, biometrics and forensics, aviation technology, hydrology, limnology and potamology, fixed wing, sensitive site exploitation, ordnance, ammunition and explosives, satellite technology, education technology, vstol, general aviation, gliders and parachutes, smart grid, psychology, machinery & tools, linguistics

Power
**Power and Energy**

**Advanced Power Systems Technologies for Improved Battery and Other Energy Storage Device Capabilities for Use by Special Operations Forces (SOF) Undersea Vehicles:** Provide a safe and reliable, air independent power system capable of being used on multiple SOF Undersea Manned mobility platforms with growth potential for broader vehicle applications (e.g. USMC HMMWV). The system must be capable of preventing, controlling and halting thermal propagation, conflagration and explosion, testable to DoD and US Navy high energy safety and environmental standards (MIL-STD-810G, NAVSEA S9310-AQ-SAF-010, NAVSEA SG270-BV-SAF-010 apply). The system requires a specific energy in excess of 130 Wh/kg and energy density in excess of 200Wh/l. The system must have a standard form factor permitting assembly into a larger form usable across a variety of undersea platforms (Seal Delivery Vehicle (SDV), Dry Submersible Technology Demonstrator (S351), and the Shallow Water Combat Submersible (SWCS)). The system software must be able to function across multiple platforms and must be testable to Joint and DoD standards (DoD Joint Software Systems Safety Engineering Handbook, DoD Directive 8500.1).

**Novel Advanced Power Sources for SOF Dismounts:** Small, lightweight, and portable capability to efficiently scavenge power from known sources and efficiently convert to transportable batteries.

**Small/Lightweight/Man pack Advanced Power for SOF Dismounts:** Provide a small, lightweight man packable power generation and management capability for dismounted ST and SOF medical support operations in a global environment.

**Novel advanced Power Sources for SOF Dismounts and Small Units:** Provide new fuel and power sources that reduce size, weight, volume, recharge time and logistics burden associated with currently available fuel and power sources. Also require longer discharge time over current battery technologies.

**Novel Advanced Power Sources for Small Units (12 or less):** Provide novel renewable power technologies (e.g. solar, wind, geothermal, hydroelectric, other) for powering small unit encampments.

**Design Solutions that Incorporate Advanced Power Technologies and Provide:** Centrally wearable power on dismount, Intelligent and highly efficient power and distribution management, Automatic power charging/recharging capability, Seamless integration for all powered subsystems and Novel power systems.

**Wireless Power Transmission for Dismounts:** Provide a small, lightweight wireless power transmission capability to recharge powered or stored devices without cables or physical contact.
Contracting Avenues

Small Business Innovation Research (SBIR)

- Non-program dollars
- Non-diluted capital
- Opportunities for further SBIR/STTR efforts
- Decreases technology development risk for follow on investment
- Full and open competition (level playing field)

Other Transactional Authorities (OTA’s)

- Great for prototype development of technologies in 1-2 year schedule
- Non-Far based contract vehicle
  - No cost accounting
- Quick obligation and dispersement of funding
- Accelerated Acquisition timeline

Broad Area Announcements (BAAs) Fedbizpops.gov

- Quick Acquisition Timeline (Quad, WP, Proposal)
- FAR based but faster than typical FAR based contracts

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<th>Submission Form</th>
<th>Start Date</th>
<th>Expires</th>
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# How can you connect?

## USSOCOM Test and Evaluation Events

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<thead>
<tr>
<th>Events</th>
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<th>TE Focus</th>
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<tr>
<td>18-1</td>
<td>13-17 Nov 2017</td>
<td>Combat Diving</td>
<td>Key West, FL</td>
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<td>18-2</td>
<td>26-30 Mar 2018</td>
<td>Optics/Bio/Sniper/Cognitive</td>
<td>Muscatatuck, IN</td>
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<td>18-3</td>
<td>17-21 Jul 2018</td>
<td>C4ISR, Cyber, UAS, Mobility</td>
<td>Fort A.P. Hill, VA</td>
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## Project Vulcan

- [https://vimeo.com/165813137](https://vimeo.com/165813137)  
  Password = Cyltix
- [Tutorial 1](https://vimeo.com/176769478)  
  password: vulcan-07292016
- [Tutorial 2](https://vimeo.com/177745178)  
  password: vulcan-08052016

## Conferences

- Special Operations Forces Industry Conference (SOFIC May 2018, Tampa Florida)
- Combatting Terrorism Technical Support Office (CTTSO)

## Huntsville SOF Network

- Forums
  - USSOCOM WG and National Intelligence Working Groups
- Receptions
- Talk SOF
- Networking

## SOF Acquisition Professionals and Operators

[https://www.socom.mil/SOF-ATL/Pages/doing-business.aspx](https://www.socom.mil/SOF-ATL/Pages/doing-business.aspx)

[JSOC GAP request (unclassified and classified)](https://www.socom.mil/SOF-ATL/Pages/doing-business.aspx)

[USSOCOM GAPS TIR](https://www.socom.mil/SOF-ATL/Pages/doing-business.aspx)

[SOFWERX](https://www.HuntsvilleSOFNetwork.org)
Government groups and individuals will collaboratively share requests for information or data through the use of Scout calls – similar to Twitter.
Scout Card Data

Be Ready First Pass!
Key

Understand the Requirement
- Current systems and tactics, techniques, and procedures
- Capability Gap Analysis
- Application of technology to future concepts

Relationships
- Trust
- Credibility

Streamlined Acquisitions
- Policies
- Funding
- Contracts
- Schedule
Questions / Comments

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