"In the middle of difficulty lies opportunity"
Albert Einstein

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS
Win • Transform • People

Ms. Lisa Sanders Director, Science & Technology

SCIENCE & TECHNOLOGY Overview
United States Special Operations Command’s Science and Technology (S&T) Directorate has developed three Special Operations Forces (SOF) Hard Problems that are of critical importance to SOF missions. They are: Small Unit Dominance, Mission Assured Communications, and Signature Management. The three SOF Hard Problems are available for download at: https://www.socom.mil/SOF-ATL/Pages/SOF-Hard-Problems.aspx.

If you think you've got a solution that can help USSOCOM’s S&T Directorate solve some or all of the SOF Hard Problems please reply via their Hard Problems mailbox also located on that same website. Please feel free to distribute this information to interested parties that could provide potential solutions to these S&T SOF “Hard Problems.”
S&T Main Focus Areas

Tactically Relevant Situational Awareness
- Next Generation Identification and Characterization - comprehensive and verifiable location of targets across various sensor systems
- Applicable in all environments – not just airborne assets in uncontested environments
- Includes means to turn information into decision quality data – Artificial Intelligence (AI)/Machine Learning (ML)
- Includes human-machine interface to make the data accessible and usable to all SOF echelons – operator through Tactical Operations Center (TOC) Commander

Communication and Navigation in all Environments
- Global Positioning System (GPS) Denied – regardless of cause
- Hostile, contested, and Crowded Electromagnetic Spectrum
- Low Signature

Tailored Lethality
- Counter-materiel & Counter-personnel
- Incorporates scalability and reversibility

Biotechnologies
- Understand and counter adversary Weapons of Mass Destruction (WMD)/terror/effect
- Explore means to optimize SOF warfighter capability/performance throughout their career

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Multiple Engagement Paths

- **TILO**
  - Exposure
  - Interest level/feedback
  - Path to follow-on engagement

- **SOFWERX**
  - Capability Collaboration
  - Rapid Prototyping
  - Prize Challenges
  - New markets for existing products
  - Exposure/Feedback

- **S&T**
  - Cooperative R&D Agreements
  - Experimentation opportunities
  - SBIR/Broad Agency Announcements
  - Commercial Solutions Opening

- **PEO/DIRs**
  - Cooperative R&D Agreements
  - Upcoming Opportunities
  - Contracts
  - SOF to Service Transitions

- **USERS**
  - Use cases/needs
  - Operator feedback
  - Priorities

Tech Scouting Tool
# S&T Engagement Tools

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<thead>
<tr>
<th>S&amp;T ACTIVITY</th>
<th>OPPORTUNITY</th>
<th>ENGAGEMENT</th>
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<tbody>
<tr>
<td><strong>SOF Futures Innovation Foundry Events</strong></td>
<td>• S&amp;T has developed an S&amp;T Futures Process</td>
<td>• S&amp;T plans to conduct 2-3 SOF Futures Innovation Foundry Events per Fiscal Year</td>
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<td>POC: William Andrews 813-825-6938, <a href="mailto:william.andrews@socom.mil">william.andrews@socom.mil</a></td>
<td>• S&amp;T conducts “Innovation Foundry” events to enable SOF’s ability to accomplish their missions 10-15 years in the future</td>
<td>• Innovation Foundry events will provide opportunities for attending and injecting disruptive technology solutions for SOF</td>
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<td><strong>Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR)</strong></td>
<td>• S&amp;T manages SOCOM’s SBIR/STTR programs</td>
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<td>POC: Mr. Anthony Aldrich 813-826-9150, <a href="mailto:anthony.aldrich@socom.mil">anthony.aldrich@socom.mil</a></td>
<td>• Stimulates innovation for small businesses</td>
<td>• <a href="https://www.socom.mil/SOF-ATL/Pages/sbir.aspx">https://www.socom.mil/SOF-ATL/Pages/sbir.aspx</a></td>
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<td>• 3 Phases, Phase I is a Study ($150K), Phase II Prototype ($1.5M), Phase III Commercialization</td>
<td>• US SOCOM participates in three SBIR/STTR Topics Call per year (April, August, and December timeframes)</td>
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<td><strong>Technical Experimentation (TE) Events</strong></td>
<td>• Conducts 3-4 US-based events every fiscal year each with different theme(s)</td>
<td>• Normally 1 TE Event/QTR, TE Request for Information (RFI) posted on <a href="https://FBO.gov">FBO.gov</a> for each TE Event</td>
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<td>POC: Mr. Dan Bernard 813-826-9917, <a href="mailto:dan.bernard@socom.mil">dan.bernard@socom.mil</a></td>
<td>• Industry opportunity to engage and demonstrate technology/concepts and get direct feedback from SOF Operators/Acquisition Professionals</td>
<td>• Go to <a href="https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx">https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx</a></td>
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<td><strong>Cooperative Research &amp; Development Agreements (CRADA)</strong></td>
<td>• SOCOM employs Overarching and Specific (Traditional) CRADAs</td>
<td>• Allows for the formulation and execution of Individual Work Plans (IWP) between the Collaborator – PEO/Directorate within SOF AT&amp;L</td>
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<td>POC: Mr. Benjamin Chitty 813-826-5162, <a href="mailto:benjamin.chitty@socom.mil">benjamin.chitty@socom.mil</a></td>
<td>• Legal agreement to provide general and specific access to USSOCOM needs</td>
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<td><strong>Broad Agency Announcements (BAA)</strong></td>
<td>• SOCOM S&amp;T Directorate/PEOs develop and post BAAs to <a href="https://FBO.gov">FBO.gov</a> that provide Areas of Interest (AOI) to Industry and other External Organizations</td>
<td>• S&amp;T BAA posts in April with Quarterly Updates</td>
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<td>POC: Mr. Peter Greany 813-826-7423, <a href="mailto:peter.greany@socom.mil">peter.greany@socom.mil</a></td>
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<td>• Biomedical BAA currently posted through US Army</td>
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<td><strong>Foundry Tech Scouting Tool</strong></td>
<td>• Web-based platform that enables anyone to quickly describe technology and upload supporting documentation to a secure, shared, searchable, central database</td>
<td>• Foundry supports evaluation/assessment/scoring of submitted technologies, and sharing of results</td>
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<td>POC: Mr. Barton Graham 813-826-6903, <a href="mailto:barton.graham@socom.mil">barton.graham@socom.mil</a></td>
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<td>• Contact POC for instructions to register</td>
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<td><strong>Technology &amp; Industry Liaison Office (TILO)</strong></td>
<td>• Conduit for the SOF AT&amp;L Enterprise</td>
<td>• Go to <a href="https://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx">https://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx</a> for information and link to US SOCOM Areas of Interest and for the TILO Submitting Your Idea Form</td>
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<tr>
<td>POC: Mrs. Shelvin Watts 813-826-1269, <a href="mailto:shelvin.watts@socom.mil">shelvin.watts@socom.mil</a></td>
<td>• Matches your company’s product/service/capability to the appropriate personnel within the command and schedules discussions or demos</td>
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