



**20-027 – Sensor Processing Technologies**

Title	Sensor Processing Technologies
Description	<p>General Dynamics Mission Systems is seeking companies with capabilities and technologies related to sensor processing.</p> <p><u>Areas of interest include:</u></p> <ul style="list-style-type: none"> <li>• Radar Systems: Advanced radar modes, advanced apertures, radar integration and radar/platform integration. Interface simulator capabilities such as target modeling and RF environment modeling to stimulate key system interfaces in a meaningful way.</li> <li>• Multiple Intelligence (Multi-INT): Interests in hyperspectral imaging, Light Detection and Ranging (LIDAR), Electro-Optical/Infra-Red (EO/IR) and Wide Area Motion Imagery (WAMI) sensors, and related processing and exploitation algorithms. Also interested in multi-sensor fusion and cross-cueing, as well as environment/interface simulation capabilities.</li> <li>• Advanced Processing: General-Purpose Graphics Processing Units (GPGPUs) for numerical co-processing and neural net/machine learning/artificial intelligence applications. Advanced Field Programmable Gate Array (FPGA) toolchains for porting software algorithms to hardware-accelerated logic.</li> </ul> <p><u>Interested parties should email a response including:</u></p> <ul style="list-style-type: none"> <li>• Product and/or capability brief, technical specifications or company brochures</li> <li>• Current level of certification for cybersecurity compliance</li> <li>• Answers to the below questions</li> </ul> <p>1. Does your company intend to utilize U.S. based or offshore facilities to perform any activity required by this TechScout?</p> <p>2. Does your company expect to utilize foreign nationals in any capacity in support of this TechScout?</p> <p><i>If you answered "YES" to either of the questions above, then:</i></p> <p>3. Are you registered with the Directorate of Defense Trade Controls at the U.S. Department of State as a manufacturer or exporter of defense articles and services?</p> <p>4. Do you have an Export Control Program and resources that address U.S. export control regulations (i.e. EAR and ITAR) that may affect your business?</p> <p>General Dynamics Mission Systems engineering will evaluate responses for further relevant discussions.</p>
Keyword(s)	Sensor Processing, Radar Systems, Multi-INT, hyperspectral imaging, LIDAR, EO/IR sensors, WAMI sensors, processing algorithms, exploitation algorithms, multi sensor fusion, cross cueing, GPGPU, environment/interface simulation, FPGA
Response Instructions & Date	<p><b>Responses will be accepted thru 1/18/2021</b></p> <p>General Dynamics Mission Systems Innovation Sourcing Network (ISN)™ is seeking respondents to the following TechScout request. This TechScout request does not contain U.S. export controlled technical data or proprietary information, and is approved by General Dynamics Mission Systems for public release and is in the public domain.</p> <p><b>Send email response to <a href="mailto:techscout@gd-ms.com">techscout@gd-ms.com</a></b></p> <p><b>TechScout responses should not contain any export controlled technical data or proprietary information.</b></p> <p><b><u>Response should include the following information:</u></b></p>

	<ul style="list-style-type: none"> <li>• <b>Product and/or capability brief, technical specifications or company brochures</b></li> <li>• <b>Current level of certification of cybersecurity compliance</b></li> <li>• <b>Answers to the above questions</b></li> </ul> <p><i>In your response, please identify whether you or your company are located outside the U.S. If located outside the U.S., please identify any home country export controls that will apply to your response. If located in the U.S., please identify whether your company employs non-U.S. manufacturing or design facilities, or foreign nationals in your response.</i></p> <p>Any subsequent interaction between General Dynamics Mission Systems and a non-U.S. based TechScout respondent, or a U.S. based TechScout Respondent with non-U.S. manufacturing, design or foreign national employees must be reviewed and approved in advance for U.S. Export Compliance requirements by the General Dynamics Mission Systems Office of Import/Export Compliance prior to any such interaction.</p> <p>General Dynamics Mission Systems will not be responsible for, nor will it pay for any expense which may be incurred by the supplier in preparation of its TechScout response. Supplier acknowledges and agrees that this TechScout request does not commit General Dynamics Mission Systems to any course of action, including but not limited to, any purchase of supplier's products or services or any future involvement with supplier. The issuance of this request does not bind General Dynamics Mission Systems to accept or review any response, in whole or in part. Subsequent pursuit or action on the part of General Dynamics Mission Systems or the TechScout respondent may require the respondent to comply with aspects of the U.S. International Traffic in Arms Regulations (ITAR) or the U.S. Export Administration Regulations (EAR) including a need to register, or apply for or execute licenses or other authorizations.</p> <p>Firms or individuals from countries subject to U.S. sanctions are not eligible to participate in this TechScout request. (U.S. Sanctions information may be found at: <a href="https://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx">https://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx</a>). These sanctions apply comprehensively to Iran, Syria, Sudan, Cuba, and North Korea. In addition, Firms or individuals that appear on the U.S. Government's Consolidated Screening List (available at <a href="http://export.gov/ecr/eg_main_023148.asp">http://export.gov/ecr/eg_main_023148.asp</a>) are not eligible to participate in this TechScout request."</p>
Questions	<p>Email the Innovation Sourcing Network with any questions or required clarification at <a href="mailto:techscout@gd-ms.com">techscout@gd-ms.com</a>.</p>