

CALL FOR ABSTRACTS



2020 INNOVATORS' SHOWCASE

Where Technology Furthers National Security

PRESENTED BY



SUBMISSIONS DUE COB MONDAY, MARCH 9

ISO: Independent Research and Development Projects to Support National Security Initiatives

Submit an abstract to present your IR&D projects with national security applications at the **2020 Intelligence and National Security Alliance (INSA) Innovators' Showcase**. Held in partnership with the Office of the Director of National Intelligence, this event exposes key S&T and procurement officials from across the DOD and IC to bleeding-edge innovations from industry and academia.

Areas of interest include:

- ▶ ARTIFICIAL INTELLIGENCE
- ▶ BEHAVIORAL SCIENCES
- ▶ CHEMICAL, BIOLOGICAL, AND NUCLEAR SCIENCES
- ▶ CYBER
- ▶ MATERIALS AND MANUFACTURING
- ▶ SENSORS
- ▶ PARADIGM CHANGES

***All abstracts, regardless of selection, will be posted on the ODNI's R-SPACE.**

Up to 24 submissions will be selected for inclusion in the Innovators' Showcase, taking place on May 14 at MITRE in Tysons Corner, VA. Presenters at this one-day exhibition will deliver brief, 8-minute pitches to more than 70 senior government S&T leaders and procurement leaders, whose mission and application needs may provide future funding opportunities.

Abstracts should be one page, unclassified, and nonproprietary. **The submission deadline is COB on Monday, March 9, 2020.** Learn more at www.INSAonline.org/showcase.

Questions?

Contact INSA at +1.703.224.4672 or send inquiries to showcase@INSAonline.org.

PARTNER ORGANIZATIONS



AREAS OF INTEREST

ARTIFICIAL INTELLIGENCE

Artificial Intelligence

Advancements in autonomous systems for rapid object detection and classification, Human Language Technology (HLT), Human-Machine Teaming integration, and novel trend analysis in large, disparate databases.

BEHAVIORAL SCIENCES

Behavioral Sciences

Develop predictive analytic tools/capabilities to detect, analyze, and counter propaganda and disinformation, manipulation of social media, and malign influence originating from both state and non-state influencers.

CYBER

Cyber

Innovations that enhance next-generation encryption, block chain technology, global supply chain risk mitigation, leverage the Internet of Things (IoT) in novel ways, create scalable network vulnerability assessments and persistent cyber capabilities, and exploit offensive cyber programs of key adversaries.

CHEMICAL, BIOLOGICAL, AND NUCLEAR SCIENCE

Chemical

Enhancement of capabilities to rapidly detect, collect, identify, and characterize signatures associated with the research and development of chemical warfare agents. Development of capabilities to simulate the dispersal of CBN materials in real environments and atmospheric conditions.

Biological

Enhancement of capabilities to detect, classify, and identify signatures from both synthetically-derived and naturally-occurring biological agents. Development of technologies to more accurately track and predict the intentional, unintentional, and/or naturally-occurring spread of a biological threat; adverse deployment biotechnology; and/or misappropriation of biological datasets and intellectual property.

Nuclear

Development of enhanced capabilities to detect, collect, and characterize signatures from material related to nuclear research and development. Novel methods to make or refine significant quantities of materials related to nuclear weapons.

MATERIALS AND MANUFACTURING

Materials and Manufacturing

Innovations resulting in unique material properties of utility, strength, and size. Improvements in manufacturing techniques such as additive structures, automated assembly, and reverse engineering.

SENSORS

Sensors

Innovations that enhance or enable new sensing of the physical environment and provide improved device utility, survivability, and persistence in adverse environments. These sensors may exploit any part of the EM spectrum (X-rays, UV, visible, IR) and acoustic and gravitational waves.

PARADIGM CHANGES

Paradigm Changes

Technology or research that represents a significant shift in the current manner of doing or thinking about something; a newly introduced element or factor that changes an existing paradigm in a significant way.

SUBMISSION REQUIREMENTS

Send a cover letter, one-page unclassified research project abstract, and biographical sketch to showcase@INSAonline.org no later than **Monday, March 9, 2020**.

COVER LETTER

Include the title of the abstract and the name, address, phone number, and email address of the principal investigator (PI) and, as appropriate, the co-PI. Identify your sponsoring corporation/institution, specific IR&D or investment project, and relevant Showcase topic of interest (listed above).

ABSTRACT

Members of INSA, partnering organizations, and academic institutions may submit abstracts at no cost. Others may submit an abstract for a fee of \$300.

Abstracts are limited to one page in 12 point font, and should lead with the title of the project, a brief discussion of the national security challenge, desired outcome(s), and the project's specific aims or hypothesis(es). Include a concise overview of the research design including methods, schedule, and progress to date.

We also recommend including plans for data analysis and/or future research areas and ongoing related research (internal or external to submitting organization).

Please be sure to include project size, duration and progress information.

Please note: Submissions must be unclassified and cannot contain any proprietary information.

BIOGRAPHICAL SKETCH

No more than one-page background on the PI and any co-PIs.

EVENT TIMELINE

ABSTRACTS DUE

Monday, March 9

INVITATIONS SENT TO FINALISTS

Monday, April 20

FINALISTS' PRESENTATIONS DUE

Monday, May 4

INNOVATORS' SHOWCASE PRESENTATIONS

Thursday, May 14