

The U.S. Army granted Astrapi Corporation a Phase I xTechSearch Award.

Astrapi participated in Phase II in Austin, Texas, August 7, 2018 at the Capital Factory.

DALLAS, TEXAS, UNITED STATES, August 13, 2018 /EINPresswire.com/ -- Astrapi is pleased to announce that the United States Army has granted Astrapi a Phase I xTechSearch award. The xTechSearch program provides unique opportunities for Astrapi to introduce Spiral Modulation to multiple Army Research Labs.

Channel capacity is a critical and limiting problem for any communication system. Astrapi now has multiple patents issued and pending among ten patent families that address how we may improve use of communications spectrum in order to meet growing demand and the needs of our Warfighters. Spiral modulation redefines how we look at addressing spectral efficiency challenges through waveform design and related innovations.

The xTechSearch program was established with a focus on spurring innovation by lowering the entrance barriers for new technologies. The program will also integrate nontraditional innovators into the Army's Science and Technology (S&T) ecosystem by providing cooperative research opportunities with Army Labs, including access to the Army's internal capabilities.

"Spiral Modulation addresses many military communication challenges. Spiral Modulation is a fundamentally new physical layer telecommunications solution with multiple benefits, including higher data throughput, power optimization, and signal interference mitigation. Fully deployed, the Army will realize significant. Size, Weight and Power (SWaP) advantages," said Dr. Jerrold Prothero, Astrapi Founder and CEO. "We have now started the initial testing and optimization in a Software Defined Radio platform and are evaluating partners for the next stages of development of this exciting new technology."

The increasing amount of content needed to advance situational awareness and persistent ISR applications creates information channel capacity challenges. Spiral Modulation uniquely addresses these challenges by improving the communication links required to assure mission success. Higher spectral efficiency using Spiral Modulation supports benefits such as improved SWaP characteristics through reduced battery weight and smaller power amplifiers, and more content and encryption through higher data throughput capabilities.

ABOUT Astrapi Corporation

Astrapi is the pioneer of Spiral Modulation, which opens an unexplored area for innovation at the core of telecommunications. Based on a generalization of Euler's formula, the foundational mathematics for telecom, Astrapi provides fundamentally new ways to design the symbol waveforms used to encode digital transmissions. By applying new mathematics to signal modulation, Astrapi is able to improve the trade-off between the four fundamental parameters in telecommunications: bandwidth, signal power, data throughput, and error rate. The resulting efficiency translates into higher spectral performance with more bits available at a lower cost. www.astrapi-corp.com

ABOUT the United States Army xTechSearch

The Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA, (ALT)) is announcing the Army Expeditionary Technology Search – xTechSearch – to be featured at the

Association of the United States Army (AUSA) annual meeting in Washington, D.C. on 8 to 10 October 2018. xTechSearch will highlight opportunities for nontraditional defense partners to collaborate with the Army to tackle the most poignant Army modernization challenges.

The ASA (ALT) recognizes that the army must enhance engagements with the entrepreneurial funded community, small businesses, and other non-traditional defense partners, by: (1) understanding the spectrum of technologies being developed commercially that may benefit the army; (2) integrating the sector for non-traditional innovators into the Army's research and development ecosystem and (3) providing mentorship and expertise to accelerate, mature, and transition technologies of interest to the Army.

https://www.challenge.gov/challenge/army-expeditionary-technology-search-xtechsearch/

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