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A--HIGH POWER UPLINK

Solicitation Number: NNH12429421R

Agency: National Aeronautics and Space Administration

Office: Headquarters

Location: Office of Procurement (HQ)

Notice Details

Packages

Interested Vendors List

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Note: There have been modifications to this notice. You are currently viewing the original synopsis. To view the most recent modification/amendment, <u>click here</u>

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Original Synopsis

Mar 13, 2012 2:34 pm

Changed

Mar 15, 2012 10:52 am Solicitation Number:

NNH12429421R

Notice Type: Presolicitation

NASA/HQ has a requirement to provide high resolution, high power uplink

Synopsis:

Added: Mar 13, 2012 2:34 pm

capabilityat Ka-band for the use in characterizing Near Earth Objects (NEOs), orbital debris, andto fill knowledge gaps in space situational awareness. In fiscal year 2012 NASA willbegin to build on its three element interferometer testbed consisting of 12m dishes todemonstrate: 1) uplink arraying with real time characterization and correction of atmospheric turbulence, 2) significant power and gain increases enabling high resolutionobject imaging and 3) real-time continual system phase control eliminating the need forcostly, highly stable components. IntelArrays Inc. is uniquely positioned to provideoverall responsibility for the technical implementation of an X-band and Ka-band uplinkarrays, innovative technology concepts, designs and arraying solutions, as well assystems engineering support and technical assistance for KSC engineering, InterTronicSolutions, Inc. (ISI), and other specialized hardware designers. NASA is rapidly moving into the Ka-band era, and a Ka-band radar can improve the knowledge of NEOs and other objects of interest by orders of magnitude in preparation forcrewed missions and to satisfy the NEO tracking directive from Congress. However, forKa-band adaptive optics to work, we must be able to compensate for atmosphericfluctuations in real time. ISI will reassemble and recommission the 12m antennasnecessary to support this requirement. Under contract with NASA Headquarters, IntelArrays Inc. will investigate the feasibility and performance of Ka-band adaptivearray combining algorithms with real-time atmospheric fluctuations for use in groundbased distributed phased arrays consisting of widelyspaced small aperture antennas. The research and development efforts will allow NASA to explore options in architectureand technology to include

GENERAL INFORMATION

Notice Type: Presolicitation

Posted Date: March 13, 2012

Response Date: March 28, 2012

Archiving Policy:

Automatic, on specified date

Archive Date: October 17, 2012

Original Set Aside:

N/A

Set Aside:

N/A

Classification Code:

A -- Research & Development

NAICS Code:

541 -- Professional, Scientific, and Technical Services/541712 --Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)

a high power, high resolution radar system for NEOs, orbitaldebris, and space situational awareness studies. IntelArrays' principals are the originators of and the only team in the world that hasdemonstrated operationally feasible, real-time radio frequency adaptive opticstechniques. Their unique qualifications will enable future architecture of the radarsystem and technologies that will enable capability and performance enhancement of ordersof a greater magnitude while at the same time improving the operability and decreasingthe operations and maintenance costs of the current system.NASA/HQ intends to award a sole source contract to IntelArrays, Inc. The sole sourceauthority used is only one responsible source 10 U.S.C 2304(c)(1) Only one responsiblesource and no other supplies or series will satisfy agency requirements (See FAR6.302-1). Interested organizations may submit their capabilities and qualifications to perform theeffort in writing to the identified point of contact no later than 2:30 p.m. local timeon 03/22/2012. Such capabilities/qualifications will be evaluated solely for thepurpose of determining whether or not to conduct this procurement on a competitive basis. A determination by the Government not to compete this proposed effort on a full and opencompetition basis, based upon responses to this notice, is solely within the discretionof the Government.Oral communications are not acceptable in response to this notice.

Additional Info:

Click here for the latest information about this notice

Contracting Office Address:

NASA/Goddard Space Flight Center, NASA Headquarters Acquisition Branch, Code210.H, Greenbelt, MD 20771

Point of Contact(s):

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For Help: Federal Service Desk Accessibility