

Questions and Answers
Broad Agency Announcement 08-006
"Electronics Technology"

In response to questions received under Broad Agency Announcement (BAA) 08-006, the following is provided:

Question Number 1: What is the power level for the high power filter?

Answer Number 1: The power level is 5 watts.

Question Number 2: What is the intended application of the high power filter?

Answer Number 2: The intended application is currently unspecified. The general areas of application are presented in the BAA.

Question Number 3: Are photonic approaches to technologies such as analog - to - digital converters (ADC's) and low noise, ultra large spur free dynamic range (SFDR) radio frequency (RF) amplifiers included in this BAA?

Answer Number 3: Photonic approaches are not included in this BAA.

Question Number 4: Are you going to have an industry day for the BAA?

Answer Number 4: Due to the very limited number of anticipated new starts, an industry day will not be held.

Question Number 5: Where can more information about what you are looking for be found?

Answer Number 5: As noted in the BAA, The Office of Naval Research's (ONR) Surveillance, Electronic Warfare, and Communications Science and Technology Programs provide the strongest pull for the Electronics Technology Program. BAA's that relate to these programs can be found on the ONR website (www.onr.navy.mil).

Question Number 6: Is ONR interested in system solutions that include the antenna array or just solutions that assume an existing/given antenna array? In the latter case, can ONR provide some information on the antenna array itself (# of elements, element spacing, total aperture size, etc.), for which system architecture and related components should be proposed?

Answer Number 6: Offerors must address relevant electronics technology within an architectural concept relevant to arrays per the BAA announcement. The goal is to develop electronics technology that enhances the overall dynamic range and usable bandwidth without adding front-end losses that would grow the aperture size beyond that of a narrowband aperture case, for a given antenna gain to system noise temperature ratio (G/T) performance.

Question Number 7: Can ONR provide some information regarding the nature of co-site interferences? What are their typical/maximum power levels? Are they assumed to be in-band? Are they narrowband or wideband?

Answer Number 7: Offerors should assume a ship board environment which will contain communications, electronic warfare, and radar emitters located within a common deck house structure. Offerors should state any assumptions made over the bandwidth guidance given in this announcement. The receivers would need to operate over the entire bandwidth, and would operate in instantaneous bandwidth modes consistent with multifunction SATCOM receivers. Any relevant assumptions or analysis should be summarized in the proposed offering and must be quantitatively and qualitatively defended if invited for an oral presentation.

Question Number 8: Is ONR interested in solutions that address very large "instantaneous" bandwidth (e.g., 1 GHz or higher)?

Answer Number 8: Yes - see the answer to Question Number 7 above.

Question Number 9: I would like to submit a white paper in response to BAA #08-006, but would like clarification on the due date. April 14 is Monday, though the announcement indicates Friday. The Friday immediately preceding April 14 is April 11. Should the white papers be submitted by Friday April 11, or by Monday, April 14?

Answer Number 9: White papers should be submitted no later than 4PM Monday 14 April 2008. As a result of this correction, paragraph number 5 entitled, "Response Date" is hereby revised to read as follows:

"5. Response Date:

White Papers: 4 PM Monday 14 April, 2008
Full Proposals: 4 PM Friday 1 August, 2008"

Question Number 10: Is there any warfare center guidance for BAA 08-006?

Answer Number 10: No, there is no separate guidance for warfare centers under BAA 08-006.

Question Number 11: Work is being done on developing functional contact lenses that may incorporate see-through displays and/or bio-sensors. These lenses will be powered remotely with RF transmission and will incorporate a wireless data link. Is this project within the scope of the BAA?

Answer Number 11: The Electronics Technology Program presented in the BAA is addressing RF electronics technology development. It is not clear from your description what RF electronics technology will be developed. Based upon the information provided in your question the project described is not within the scope of the BAA.