



## EDGE Call for Innovation (CFI) Wearable Technologies for Target Acquisition

**Objective:** To identify human portable technologies that could assist Joint Tactical Observers (JTAC) in maintaining situation awareness and identifying and communicating target information.

**Description:** JTACs are dismounted soldiers (typically Air Force Special Ops) who are co-located with ground forces (Army/Marines) and who have the responsibility of communicating detailed target descriptions and precise geo-locations to Close Air Support (CAS) elements. They have many cognitive tasks to perform, including air/ground space de-confliction, avoiding friendly fire, managing exfil routes for ground troops, avoiding detection, and avoiding enemy fire. JTACs require easy-to-use low SWAP (Size, Weight & Power) systems that can be body worn and interfaced to other systems.

**Requested Innovation:** We are looking for innovations in wearable components that support computing, information display, and user input. These components must aid the warfighter in performing navigational tasks, locating targets, and communicating with remote air and ground assets. We are particularly interested in the technology areas below (the current state-of-the-art for JTACs is included in parenthesis):

- mobile computing systems (Itronix MR-1)
- monocle and helmet mounted displays (Vusix Tac-Eye)
- night vision goggles with computer overlay capabilities
- dismount friendly text input and pointing technologies (Logitech TrakPad)
- arm or wrist worn displays (none)
- personal navigation systems

### Targeted Timelines:

- Confirmation of interest 30-August-2010
- Please complete the [product overview form](#) and optionally send any white papers or other literature or videos by 10-Sept-2010
- Face-to-Face discussions at 4th Annual EDGE® Innovation Member Conference, Taunton MA, August 31, 2010

**Responses:** Email responses to Yechezkal Gutfreund ([ygutfreund@draper.com](mailto:ygutfreund@draper.com)) or contact Yechezkal to schedule in person meetings at the EDGE Member Conference August 31<sup>st</sup>.