Instructions for submitting Experiment Proposals to the Joint Interagency Field Exploration (JIFX) event

1. Review the event’s [Request for Information (RFI) document](http://my.nps.edu/web/fx/rfi)
2. Review the below Experiment Proposal template. All Experiment Proposals must be submitted through our online process. This involves a series of web forms. You may compose your whitepaper (based on the below template) in a savable word processing program (e.g. MS Word) but you will need to submit it through our [online submission tool](http://my.nps.edu/web/fx/propose).
3. If your experiment is selected for inclusion in the JIFX event you will receive additional instructions for the submission of additional data and registration information.

**JIFX Experiment Proposal Template**

**SECTION 1: SUMMARY OF EXPERIMENT PROPOSAL**

* **Idea/Title**

*What is the Title of your experiment?*

* **Organization Name**

*What is the name of the organization that will be conducting the experiment?*

* **Website**

*Please list any relevant websites relating to the project or the organization.*

* **Principal Investigator (PI) / Experiment Lead Contact Information**

*Name, phone number, email address.*

* **Participant Names and Responsibilities.**

*Names of those who will be attending as part of your experiment and their job titles. Note: this does not take the place of event registration. If your experiment is selected to participate ALL attendees will need to register in order to gain access to the venue.*

* **Capability Area of Interest** (Dropdown values provided, please choose one)

*Choose the most relevant area of interest based on the list provided.*

* **Capability Description** (100-400 words)

*Provide a simple, concise, but articulate description of the capability your experiment proposes to explore.*

* **Experiment Hypothesis and Objectives** (100-400 words)

*What is the hypothesis your experiment seeks to prove/disprove? What are the objectives of your experiment?*

* **Experiment Plan** (100-400 words)

*How do you plan to measure your experiment? What is your data collection plan?*

* **Measures of Performance/Effectiveness** (100-400 words)

*What are your measurements of performance? What are your measurements of effectiveness?*

* **New Capability** (100-400 words)

*In what way(s) does your experiment propose a new or ingenious approach?*

* **Capability Gap** (100-400 word)

*Identify which area of interest your proposed experiment addresses. A list of relevant areas can be found under section B.2 in the event’s Request for Information (RFI) document posted on the JIFX website*

**SECTION 2: Quad Chart Information**

* **How is this work currently being funded?** (Multiple choice)

*Internally funded (by your organization), federal funded or other.*

* **Ownership of the capability** (Multiple choice)

*Is the capability under development government owned, proprietary, open source or other?*

* **Who currently utilizes the capability or capabilities present in this work?** (Multiple choice)

*US military, government first responder (federal, state or local), other federal entity, private industry, non-profits, “the capabilities being explored are not yet fielded”, or other.*

* **Please provide a short, concise description of the technology/capability you propose to explore with this experiment** (250 character maximum)

*In the fewest possible words, how would you sum up your technology/capability?*

* **How is this technology unique compared to current technologies? Is it a new capability or does it build on an existing capability or set of capabilities?** (250 character maximum)

*In the fewest possible words, what makes this technology/capability unique or special?*

* **What type of experiment is this?** (Multiple choice)

*Hypothesis testing, interoperability testing, end-user evaluation, and/or other?*

* **Technical Information: Hardware**

*Dimensions, weight, power requirements.*

* **Technical Information: Software**

*Required processor (for optimal performance), file size, network connection speed (for optimal performance) and interoperable standards (Open API? Type of data input, output, connection to sensors, etc.)*

**SECTION 3: INVITING GOVERNMENT AGENCY POINT OF CONTACT (IF APPLICABLE)**

* **PoC Name:**
* **PoC Phone Number:**
* **PoC: Email Address:**
* **Funding Sponsor (if applicable):**

**SECTION 4: ASSETS/SUPPORT REQUIRED** *NPS has a number of resources available to support experimentation. These resources are not guaranteed but we will work with you as best we can to ensure you have what you need to safely and effectively conduct your experiment. Please only request what you truly need.*

* **Which of the following environments are needed to support your experiment**:

*Wireless network access, wired network access, indoor space with table, outdoor space, presentation space with access to monitors or projectors, access to a mock (uninhabited) urban environment, access to open range with large standoff distances, access to firing ranges, night operations, or other.*

* **Would you like to request time with end users (uniformed personnel and/or first responders)?**

*If so, how many?*

* **Would you like to request the use of a remote power source (i.e. generators, solar panels, etc.)?***If so, what are your power requirements?*
* **Does your experiment include the use of lasers?**

*If so, please briefly describe your system.*

* **Safety Issues**

*Are there any potential safety hazards in your proposed experiment?*

* **Times Available to Present Work** (Choose all that apply)

*What are the best times during the event for you to present your work?*

**SECTION 5: AIRCRAFT INFORMATION**

* **Does your experiment include the use of an aircraft (manned or unmanned, remote controlled or tethered)?**

If so, you will be contacted following your Experiment Proposal submission for more details.

**SECTION 6: NETWORK ACCESS AND DEVICES**

* **Do you plan on operating a wireless access point (including smartphone or "MyFi" access points)?**

*If so, please briefly describe the device*

* **Does your experiment require the use of the JIFX local area network? (Please note: this network provides high bandwidth for local data transfer only. It is logically separate from the internet)**

*If so, please describe the types of data you will be sending across the network (e.g. video, chat, text, position data, etc.) Also, please list the number of static IP addresses you will need and how many subnets are required.*

* **Does your experiment require access to outside resources?** Y/N

*Will your experiment require access to any resources outside the test bed network? Does this access require the use of a virtual private network (VPN)? Please describe the types of data you send via the open internet connection (e.g. text, video, email, file transfer, web browsing, etc.). Are there any known constraints or requirements for the network (e.g. bandwidth, routing, bridging, multicast, etc.)?*

* **If yes, do you require assess through the internet?** Y/N

*Can the remote source be accessed on the open internet? If not, does it require a VPN tunnel?*

**SECTION 7: RADIO FREQUENCIES** *For each frequency to be emitted, please add a new entry providing detailed information.*

**Frequency 1:** *Name frequency (i.e. voice connection)*

* **Lower Bound Frequency (MHz):**
* **Upper Bound Frequency (MHz):**
* **Bandwidth (MHz):**
* **Throughput:**
* **Network Type:** *Network, analog, serial?*
* **Spectrum:** *Discreet or spread?*
* **Directionality:** *Omni-directional? Directional?*
* **Power Transmitted:**
* **Physical Location of transmitter:** *Mobile? Hilltop? Aerial? Tower mounted?*
* **RF Required outside of experiment?** *If you require RF spectrum outside of the blocked time for your experiment, when would you require access to that spectrum?*

**Repeat for all subsequent frequency requests**

**SECTION 8: ADDITIONAL INFORMATION**

* **May we share section 1 of this Experiment Proposal submission (“summary of experiment proposal”) with other participants prior to the event?**
* **Do you intend to publish your results? If so, in which publications?**
* **Attach at least 1 image (<48MB).**
* **Review Technical Experimentation Terms and Conditions and Submit**