

Technology Name



Technology Photo

Submitting Company/Organization

Street Address

City, State, and Zip Code

[website address](#)

POC: Name (Limit One)

Tel: (XXX)-XXX-XXXX

Email: [name@company.com](#)

1. Technology Name. _____.

2. Technology Description. Provide a brief description of the proposed technology and its capabilities. At the minimum, you should include what the technology is, technical characteristics (size/weight, etc.), and the capability it provides (what does it do).

Example: The Acme Drone is an aerial surveillance system designed to provide Soldiers with overhead imagery. The system is composed of an aircraft, carrying pouch, control unit, charging station and battery. The total system weight is three pounds, and the aircraft itself weighs one pound. Operators can select a visible light or infrared camera. The aircraft has a maximum flight duration under optimal conditions of 30 minutes. It can fly up to 1,000 meters altitude and at a maximum distance of 3,000 meters from the control station. The radio frequency used for the aircraft communication with the control unit is 2.4GHZ.

3. Concept of Employment. Describe how you envision the technology being used in AEWE.

Example: The Acme Drone should be used by Soldiers to conduct aerial reconnaissance prior to or during a tactical operation. Soldiers carry the system with them from an assembly area to the military objective area. The Acme Drone can be used to conduct route reconnaissance, area reconnaissance on an objective, or for local security around the unit to provide early warning. We recommend one system be used by the platoon.

4. Operators. The AEWE Experiment Soldiers, the EXFOR, are a platoon size of forty personnel with the Military Occupational Specialty (MOS) of 11B Infantry Soldier.

Is your technology suitable for use by Infantry Soldiers? YES/NO.

If no, who do you envision using your technology? _____.

5. Military Problem Statement. List the military problem you are trying to solve.

Example: Currently, infantry platoons lack the ability to conduct aerial surveillance without requesting support from higher headquarters. Small units must conduct direct visual observation which exposes the unit to risk including ambush or other form of hostile fire. The Acme Drone is designed to provide standoff observation that will preserve the element of surprise and give Soldiers a tactical advantage.

6. Technology Maturity. Describe the level of maturity of the proposed technology (e.g., tech demonstrator, prototype, fielded system).

7. Experiment Environment. AEWE 2020 will have three potential venues for AEWE to assess your technology. The AEWE Team will determine the best venue for your technology based on system attributes. Selected technologies fall under three types of AEWE experiments conducted:

- 1) **Live Fire.** Live fire range for weapons, lasers and explosives. AEWE uses this venue for technologies that are weapons, Class III or higher lasers, and explosives. These events in AEWE are typically one to three day events.
- 2) **Force-on-Force.** Army tactical maneuver operations, such as attack and defend missions against an opposing force using the Multiple Integrated Laser Engagement System (MILES). This venue is approximately 50 days long including training and data collection events.
- 3) **Excursion.** A short assessment focused on your technology. AEWE uses this venue when the technology would not likely be used during the tactical missions. Examples are water purification and engineer obstacle reduction systems. Excursions are typically one to three days in duration.

Do you have a preference to where your technology would be best suited for? If not the AEWE Team will make a recommendation _____.

8. Partnerships. Please inform the AEWE Team if you are partnered with an academic institution or other agency that can possibly have oversight or governance requirements during the experiment. YES/NO. If yes, what agency_____.

Note: The AEWE Team will design the experiment and write a report on the results. The design of the experiment is based on input from you and government subject matter experts, but the experimental design and events is our area of expertise. The design that we come up with will place your technology into the hands of Soldiers in an operationally relevant context using military tactical scenarios. We do not require assistance from any outside agency or academic institution that you may be partnering with. If there is some extenuating circumstance that requires collaboration or oversight for your technology, please bring that to our attention in your white paper submission.

9. Integration. Often technologies require other systems in order to be adequately assessed. Examples are:

- 1) Rifle sighting systems that require the rifle and ammunition.
- 2) A generator that requires electronic components to power.
- 3) Software applications for the Army Nett Warrior (NW) system that require NW and radios.

AEWE may or may not be able to provide systems required for integration, but we need you to let us know now of potential requirements. Please list known integration requirements here:

- 1) _____ Are you bringing it? (Y/N)_____.
- 2) _____ Are you bringing it? (Y/N)_____.
- 3) _____ Are you bringing it? (Y/N)_____.

10. Training. Outline the training plan that your team will provide. How long will it take for you to train the AEWE participating Soldiers? Consider classroom and hands on practical exercises in your estimate. Consider that AEWE does not have unlimited time, and we will train 40 Soldiers on approximately 30 technologies in ten days during the Force-on-Force phase.

11. Quantity. We do not need to know this now, but if you have a quantity in mind, how many systems do you intend to bring to AEWE, please specify it here: _____.

12. Video Submissions (optional). If you have a video on the internet of the technology please provide a link to the video here. This is not a requirement but may help us better understand your submission.

13. Objectives. List what you hope to learn about the technology from participating in AEWE 2020. Objectives should be precise, measurable and obtainable.

Example: *Does the Acme Drone meet Soldier requirements for size, weight, and capability?*

Vendor Objective 1 (Required).

Optional Vendor Objective 2.

Optional Vendor Objective 3.