



One Nation Innovation Inc.

Labyrinth Project

www.onenationinnovation.org

REQUEST FOR PROPOSAL

This is a Request for Proposal (RFP) to identify your company's ability to support the One Nation Innovation Labyrinth Project task "XVIII Airborne Corps H2F User Interface/Exchange and Software Development Support"

XVIII Airborne Corps H2F User Interface/Exchange and Software Development Support

OVERVIEW:

XVIII Airborne Corps (ABC) Holistic Health and Fitness (H2F) needs a User Interface and Exchange that allows users, providers, and leaders to seamlessly collect and utilize data. This interface needs to be designed to encourage buy-in from all parties and should provide value added to each echelon of user. The User Interface application should be accessible by Civilian, and Government ingest points (both computer and cell phone). The exchange must safeguard PHI and PII and allow for the push and pull of data from DoD and non-DoD ingestion points. A fully functional application will skillfully provide insightful health and lethality reports and provide the user with a positive application experience. In addition to the primary effort, which is the H2F user interface and exchange, this software support should be prepared to assist with additional XVIII ABC software efforts and provide support to the XVIII ABC software developers as required.

The requirements for this Request for Proposals are featured below:

GOALS:

1. Since the XVIII ABC supports a minimum of 90,000 personnel throughout its formation and works with large scale partner agencies, this problem set should be viewed to support at a minimum 120,000 personnel. It should be known that currently this demand is not fully scaled and as a result the current user number is drastically lower. However, this scope is the end state goal of this problem set. As a result, each sprint should anticipate a scaling nature of the amount of support needed to properly handle the existing and new users and required features.
2. Problem set seeks to ensure that XVIII ABC has a fully developed and maintained H2F user interface and exchange that facilitates efficient user, provider, and leader data ingestion and utilization.
3. Developers will take both XVIII ABC and partner agency requests and update the interface to accommodate additional features and data ingest locations.
4. Develop an ability to push/pull information from front end services that exist for HP collection. This push/pull will occur on XVIII ABC localized front end services to include the H2F application and Leader Engagement Tool application. It will also require the push/pull of data from partner agencies such as Optimizing the Human Weapon System (OHWS) and Measuring and Advancing Solider Tactical Readiness and Effectiveness (MASTRE).
5. Support ATO efforts (artifact products) for XVIII ABC applications and platforms. This is not an ATO/ISSO requirement, this is intended to provide the ATO/ISSO team the required support to accomplish their ATO requirements. These artifacts should also provide the ability for any person to read these documents and understand the code and justification for each major change conducted from each code version.
6. Maintain and provide updated Standard Operating Procedures (SOPs) each quarter/90-day sprint.

SPECIFICATIONS:

- 1) Provide a proposed technical architecture and process for your solution to provide a fully functioning user interface and exchange for the XVIII ABC supported in the XVIII ABC cloud environment.
 - a. Discuss how this system will handle providing access to Civilian and DoD agencies and systems.
 - b. Describe how this system will handle data ingestion from Civilian and DoD agencies and systems. Specifically note how the team will handle large scale user operations.
 - c. Describe how this system will be run from both computer and cell phone based platforms.
 - d. Describe how you will ensure that the application can push/pull PHI/PII data from Government programs of record.
 - e. Describe how you will ensure PHI/PII data is protected.
 - f. Detail how you would utilize or work with the following tools (e.g., PowerBI, Tableau, R Studio, Python, Matlab, Plotly, Seaborn, ggplot2, Docker, Kubernetes,

Terraform, JavaScript, React, Express, MongoDB, and PostgreSQL) between several parent-child governance structures. The list above highlights what is currently utilized in the enterprise and it should be understood that other tools and solutions can be discussed in proposals and negotiations.

- 2) Please detail how you would agnostically integrate third-party software applications into the H2F user interface and exchange. Some of the known possibilities for full integration into the application are featured below:
 - a. Strength and conditioning applications (e.g., CoachMePlus, Bridge Athletic, Train Heroic, etc.) utilized by Soldiers and maintained by H2F performance teams.
 - b. End user, coach/instructor, command-level human performance data management system solutions (e.g., Smartabase, Kitman Labs)
- 3) Describe how you would handle complications that can occur with cross platform development to include iOS, Android, Web Applications, and Desktop platforms.
- 4) Detail how you would integrate analytics and dashboard visualization tools between several parent-child governance structures.
- 5) Describe how you would adjust the specified team in order to pivot onto and conduct a technology transition within the cArmy infrastructure?
- 6) Describe how you will work with the government lead and ATO support SMEs for delivery of technical architecture proposed above to include achieving ATO with a cArmy-U environment.
- 7) Describe how you will collaborate with other non-government providers to support a transparent, team approach through development, tests/evaluations, refinement, and transition efforts?
- 8) Propose recommended staffing plan (team size and composition) to develop an appropriately scaled user interface and exchange with the necessary health and lethality features and accessibility to support 120,000 personnel. Include labor categories in staffing plan.
- 9) Describe how your effort would employ tech, processes, and personnel for various XVIII ABC units to support the autonomous running of algorithms to assess shoot, move, communicate dynamics in a live-fire scenario and outside of a lab environment.
- 10) Describe your organization's domain expertise (H2F, Human Performance, Lethality) that will benefit the XVIII ABC to understand and solve the units' H2F user interface and software problems.
- 11) This effort will aid in project development, accreditation, maintenance, and sustainment. The work will be performed preferably at Fort Bragg from Monday-Friday during core business hours (0800-1700). The XVIII ABC team understands that 100% work performance at Fort Bragg collocated with the Data Warfare Company (DWC) may not be viable for all contractors and as a result will also consider hybrid solutions and even fully remote. However, please understand that the preference will be towards on-installation or

hybrid solutions (i.e. 1-2 developers at Bragg and the remainder remote or remote with travel and TDY periods). Please provide a targeted on-boarding date and on-boarding requirements.

12) Period of Performance and schedule: we ask each proposal to feature the following schedule structures:

- a. 90-Day Sprint Model (show 4 total sprints) to demonstrate performance; first two sprints fully funded, last two sprints incrementally funded
- b. 1 Year Period of Performance (PoP) with specified staffing plan and built-in options to add additional support through the PoP
- c. Each proposal must have a detailed cost breakdown (labor, travel, G&A, equipment)

Projected Work Roles/ Responsibilities:

1. Software Designer/DevOps Engineer – Responsible for planning, designing, testing, and implementing a comprehensive XVIII ABC user interface and exchange. This role is responsible for working with the XVIII ABC and partner agencies to develop a coordinated process supporting the push/pull of information across the formation and enterprise. This role will ensure that user, provider, and command requested features are added and adjusted as required to ensure a fully functional and optimized H2F application. With this requirement, this person will also assist in maintaining the backlog. This role will identify processes that can become automated. Will provide reports and products to the DWC to enable artifacts to be properly maintained and will assist in the preparation of these documents for ATO. This role can require engagements with key leaders and may require the presentation of application features. Lastly, this role will situationally assist with providing advisement and design input on other XVIII ABC application efforts.
2. Software Developer – This role is responsible for building, improving, and maintaining a fully scalable and consistent H2F user interface and exchange that enables the XVIII ABC to utilize collected data to make informed decisions at the user, provider, and leadership levels. Responsible the following key tasks:
 - a. Provide and maintain full functionality to the comprehensive H2F user interface.
 - b. Support the documentation for the application and will aid in the overall user interface and exchange deployment to the entire XVIII ABC.
 - c. Support the maintenance of the DWC backlog and work to resolve issues on the backlog IAW with the commander’s direction.
 - d. IT support to ensure near 24-hour functionality. This support will require expedited outage and bug repair. Expectation will be to have 1 person prepared to react to this mission outside of business hours (1700-2200 and 0500-0800) M-F. This should not be considered full-time work and should be considered as required.
 - e. User anonymization to ensure PHI and PII cannot be used improperly
 - f. Assist Data Scientists in Data Ingestion
 - g. Assist Data Scientists in automation of data collection
 - h. Application Security
 - i. Providing user access to include onboarding new members and re-instating members who fall off due to currency.
 - j. Assist XVIII ABC software developers expand their expertise through mentorship and coaching

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- k. Provide assistance and input on applications that are assigned to XVIII ABC software developers
 - l. Prepared to support Data Scientists ingest data from partner agencies such as Optimizing the Human Weapon System OHWS and Measuring and Advancing Solider Tactical Readiness and Effectiveness (MASTRE).

CERTIFICATION/SKILLS:

1. Minimum of 10 years of industry level software design experience.
2. Minimum of 5 years of industry level software developer experience
 - a. If a junior software developer is proposed, a justification of need must be provided and a plan for ensuring tangible deliverables are produced by this individual (i.e. senior software developer will instruct and mentor).
3. Additionally, should have the relevant training and/or certifications required for a Software Designer/Software Developer
4. Troubleshooting and analytical skills
5. Strong communication and collaboration skills
6. Must have a base level education on the following: PowerBI, Tableau, R Studio, Python, Matlab, Plotly, Seaborn, ggplot2, Docker, Kubernetes, Terraform, JavaScript, React, Express, MongoDB, and PostgreSQL
 - a. Emphasis of strong understanding is on:
 - i. Docker
 - ii. Kubernetes
 - iii. Terraform
 - iv. PowerBI
 - v. Python
 - vi. React
 - vii. MongoDB
 - b. As a team these tech/languages/frameworks/databases above should have full coverage and lack of experience should not be an issue for any problem set using these systems.

Logistics:

1. No Government Furnished Equipment (GFE) for this award. Contractors may propose specific equipment items needed in their proposal and associated costs.
2. If contract performance is to be conducted at Fort Bragg, the contractor should expect an assigned workspace with a standard desk/cubicle and chair.
3. The contractor should factor into their proposal and be prepared to provide their own commercial internet access via wifi Hotspot in order to perform the work for this problem set. While there is internet at the government facility, the current bandwidth is not sufficient for performing this work.
4. If performance will be 100% remote, then Contractor should factor travel to Fort Bragg in their proposal (this cost should be separated from other costs).

Response Requirements for this RFP:

1. State your detailed approach to meet the scope and requirements
2. State your staffing structure, labor categories and management approach for this effort
3. Costs associated with support for a Period of Performance of 12 months that describes the 90-day sprints from time of award.
4. Include previous experience where you have done this type of work before, customer and the outcome. If no previous experience it will be evaluated as neutral.

5. Submit your responses into 4 separate volumes:

(Volume 1: Detailed Technical Approach, Volume 2: Staffing and Management Approach, Volume 3: Cost, Volume 4: Prior experience/Company past performance).

6. Your total submission is limited to no more than **30 pages** total not including the cover page. This allows flexibility for each offeror to tailor their responses accordingly. Ensure that each volume is separated and labeled per the guidance above.

7. Submit your response to this **RFP NLT 9 January 2023** by 5pm EST.

8. All response materials submitted to **response@onenationinnovation.org**

9. Please provide a targeted on-boarding date and on-boarding requirements post award.

10. All Response Submissions **must** include the following Cover Page administrative data: Business Name

Technical and Business Point of Contact Name

Title

Email

Phone

Business URL

Business Address:

Business Phone:

Unique Entity ID:

Cage Code:

Business Status: (i.e. NonProfit)

11. After submission deadline, ONI will go through a down selection with the government representatives that may lead to one-on-one meetings between One Nation Innovation and the down selected Offeror for potential follow-on information requirements.

12. Evaluation Criteria: This agreement will be firm fixed price. Innovative approaches will make your submission standout. Your submission will be evaluated on the following:

- a. Your approach to meet the requirement (40% weight)
- b. Staffing and Management (20% weight)
- c. Cost for a 12-month period of performance (20% weight)
- d. Previous experience/understanding of your company's ability to successfully conduct the work (20% weight)

NOTE: ALL questions for the RFP must be submitted by 28 December 2022 by 5pm (eastern). All consolidated questions must be sent to response@onenationinnovation.org .