

1 **I. OVERVIEW OF THE FUNDING OPPORTUNITY**

2 **United States Special Operations Command**



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5
6 **Department of Defense**

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8 **BROAD AGENCY ANNOUNCEMENT (BAA)**
9 **for Extramural Biomedical and Human Performance**
10 **Research and Development**

11
12 **Funding Opportunity Number: HT9425-23-S-SOC1**

13 **Announcement Type: Initial**

14 **Catalog of Federal Domestic Assistance Number: 12.420**
15 **Military Medical Research and Development**

16
17 **KEY DATES**

18
19 **Release/Posted Date:** Initial 01 August, 2023

20
21 **Closing Date:** 31 July, 2028, 11:59 p.m. Eastern Time

22
23 This Funding Opportunity Announcement is a BAA. It is continuously open for a 5-year period,
24 from 1 August 2023 closing 31 July 2028, 11:59 p.m. Eastern Time. Note: This BAA will be
25 updated annually.

26
27
28 ***This Broad Agency Announcement must be read in conjunction with the General Submission***

FY23-FY28 DoD USSOCOM BAA for Extramural Biomedical & Human Performance
Research and Development

29 *Instructions, which are available for downloading from Grants.gov. The General Submission*
 30 *Instructions are located under the “package” tab and can be downloaded by selecting the*
 31 *“Download Instructions” icon when previewing the submission package.*
 32
 33

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 39 Develop improved pre-hospital canine combat casualty simulation training devices with an
 40 emphasis on Special Operations Forces (SOF) pre-hospital providers. The proposed projects
 41 must research and apply/or develop novel approaches for high-fidelity canine trauma training
 42 simulation devices with physiologically relevant feedback to include temperature, pulse, lifelike
 43 size and weight, realistic fur, active bleeding, anatomically accurate airways, and haptic
 44 technology. Canine training devices should respond to medical treatments with little to no
 45 operator/trainer intervention and capture and provide accurate casualty care feedback. All
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75

76 **II. DETAILED INFORMATION ABOUT THE FUNDING**
77 **OPPORTUNITY**

78 The Fiscal Year 2023 – Fiscal Year 2028 (FY23-FY28) United States Special Operations
79 Command (USSOCOM), BAA for Extramural
80 Biomedical and Human Performance Research and Development contains several changes from
81 previous USSOCOM BAAs. Read each section carefully. Note the following:

82

- 83 • The total individual project estimated cost ceiling has been increased from \$4,000,000 to
84 \$5,000,000, and generally anticipated project cost has been increased from \$700,000 to
85 \$1,500,000.
- 86 • The “Program Description” that describes the “Research Areas of Interest (RAIs)” have
87 been updated.

88 **II.A. Program Description**

89

90 This BAA is intended to solicit extramural research and development ideas using the authority
91 provided by United States Code, Title 10, Section 4001. This BAA is issued under the provisions
92 of the Competition in Contracting Act of 1984 (Public Law 98-369), as implemented in Federal
93 Acquisition Regulation (FAR) 6.102(d)(2) and 35.016. In accordance with FAR 6.102, projects
94 funded under this BAA must be for basic and applied research to support scientific study and
95 experimentation directed toward advancing the state-of-the-art or increasing knowledge or
96 understanding rather than focusing on development of a specific system or hardware solution.
97 Research and development funding through this BAA is intended and expected to benefit and
98 inform both military and civilian medical practice and knowledge.

99

100 This BAA provides a general description of the USSOCOM’s research and development
101 programs, including RAIs, evaluation and selection criteria, pre-proposal/preapplication and full
102 proposal/application preparation instructions, and general administrative information.
103 Submission of a pre-proposal/pre-application is required. After review, if the USSOCOM is
104 interested in receiving a full proposal/application, the Applicant or Offeror will be invited to
105 submit a full proposal or full application. Specific submission information and additional
106 administrative requirements can be found in the document titled “General Submission
107 Instructions” available in Grants.gov along with this BAA.

108

109 The USSOCOM utilizes the tools and processes provided by the Congressionally Directed
110 Medical Research Programs (CDMRP). The CDMRP manages the electronic Biomedical
111 Research Application Portal (eBRAP) system and retrieval and processing of full
112 proposal/application submissions from Grants.gov. Refer to [Section II.G, Agency Contacts](#), for
113 additional information.

114
115 The USSOCOM’s supporting contracting office, the U.S. Army Medical Research Acquisition
116 Activity (USAMRAA) will be the awarding and administering office for proposals selected for
117 funding.

118 **II.A.1. Research Area of Interest**

119
120 A primary emphasis of the USSOCOM Biomedical, Human Performance, and Canine Research
121 Program is to identify and develop techniques, knowledge products, and materiel (medical devices,
122 drugs, and biologics) for early intervention in life-threatening injuries; prolonged field care (PFC);
123 human performance optimization; canine medicine/performance; brain health; immune response;
124 automation of systematic reviews and metanalysis; and novel post-traumatic stress, depression, and
125 anxiety treatment.. Special Operations Forces (SOF) medical personnel place a premium on medical
126 equipment that is small, lightweight, ruggedized, modular, multi-use, and designed for operation in
127 extreme environments. The equipment must be easy to use, require minimum maintenance, and have
128 low power consumption. Drugs and biologics should optimally not require refrigeration or other
129 special handling. All materiel and related techniques must be simple, effective, and easily modified
130 for commercialization. Research projects may apply existing scientific and technical knowledge for
131 which concept and/or patient care efficacy have already been demonstrated to meet SOF
132 requirements. The proposed research must be relevant to active-duty service members, veterans,
133 military beneficiaries, and/or the American public. Relevant research must be responsive to the
134 health care needs of the U.S. Armed Forces, family members of the U. S. Armed Forces, U.S.
135 Veterans, and civilian populations. Proposals must address a relevant health problem responsive to
136 one of the RAIs identified below. Additional RAIs may be added during the life of the BAA (FY23-
137 FY28). The following RAIs are in no particular order:

138
139 1. **Damage Control Resuscitation:**
140 SOF medical personnel require capabilities for far-forward medical care to reduce the mortality and
141 morbidity associated with critical wounds and injuries. The proposed research, application, and/or
142 development of medical techniques and materiel (medical devices and biologics) for optimal triage
143 and early intervention in critical life-threatening injuries when casualty evacuation is not possible or
144 is delayed. The project areas under “Damage Control Resuscitation” to which the USSOCOM will
145 give highest consideration are:

146
147 a. **Global Treatment Strategies and Next Generation Wound Management:**
148 The proposed project must research, apply, and/or develop effective treatment strategies that address
149 the following elements: hypotensive resuscitation, optimal fluid(s), uncomplicated shock,
150 noncompressible hemorrhaging, traumatic brain injuries, and austere damage control surgery. These
151 strategies must be optimized for medics in austere, far-forward areas, with minimal logistical or

152 specialty support, who must stabilize and treat patients for extended periods (days, not hours).
153 Projects that research and develop an all-in-one traumatic wound care treatment that can achieve
154 hemostasis, incorporate analgesia, deliver antibiotics, and start tissue regeneration are preferred.

155
156 b. Analgesia:

157 The proposed project must research, apply, and/or develop novel, safe, efficacious, peripherally, and
158 centrally acting analgesia that provide easy administration in the field, tolerance of extreme
159 environments, and effectiveness at the point of injury for a prolonged period of field care (days, not
160 hours) and does not sensitize the patient to topical analgesia. Maximum analgesia with minimal
161 sedation is preferred.

162
163 c. Far Forward Blood, Blood Components, Blood Substitute, & Injectable Hemostatics:
164 The proposed project must research novel strategies to increase the ease, efficacy, and safety of blood
165 transfusions (i.e., person to person, pre-hospital blood banking, and blood substitutes) forward of
166 normal logistics support; (e.g., evaluating blood for type/cross matching and for the presence and/or
167 reduction of pathogens, leucocytes, and AB antibodies to improve safety of whole blood transfusion
168 at the point of injury). Projects that will be considered also include other blood components such as
169 freeze-dried plasma and platelets, cryoprecipitate, fibrinogen, prothrombin complex concentrate, and
170 injectable medications to address the coagulopathy of trauma such as Tranexamic acid. Research
171 should focus on extending shelf life of whole blood beyond current limitations. A long-term
172 objective is a blood substitute that is comparable in size, weight of traditional blood products, and
173 effectively functions like fresh whole blood without requiring refrigeration. Strategies to find the
174 delivery of these prototypes individually or in concert will also be considered. Priority will be given
175 towards projects that are oriented towards final solutions or prototypes that are shelf stable requiring
176 minimal to no refrigeration as well as those that can carry oxygen in quantities similar to healthy red
177 blood cells.

178
179 d. Austere Surgical Stabilization:

180 Future theatres where SOF personnel will operate are likely to be much less medically robust than
181 the past decade of fighting in our current theatres (this can translate to remote civilian areas). Rather
182 than sitting at hardened structures waiting on patients, surgical personnel may be increasingly asked
183 to go to the patient. Research should focus on mobility/portability of medical and surgical equipment,
184 including support equipment such as sterilization, with emphasis on equipment with greater
185 capabilities than currently fielded devices, smaller size and weight, low power demands, and
186 flexibility in power supplies. Additionally, research and development efforts should include
187 telehealth technologies linking forward surgical providers with higher medical authority consultation
188 and effective, relevant, and dynamic surgical training capabilities. Research may also include a
189 human systems approach to define limitations and mitigation strategies of surgical capability in
190 austere environments (i.e., low light, temperature variability, surgery in flight, etc.).

191
192 2. Prolonged Field Care (PFC):

193 SOF medical personnel require capabilities for far-forward medical care to reduce the mortality and
194 morbidity associated with critical wounds, injuries, diseases, and associated sepsis. PFC should focus
195 on novel treatments that support the ability to manage 3-5 patients across the spectrum of illness to

196 multi-system injury for a minimum of 5-7 days. Significant consideration will be given to proposals
197 focused on PFC that may also relate to Sections 1 (a-d) and 3(a) of this BAA.

198

199 a. Medical Sensors and Devices:

200 The primary emphasis is to research, apply and/or develop medical techniques, pharmaceuticals,
201 biologics, and field-sustainable, rapidly deployable medical sensors and/or devices for extended care
202 beyond initial trauma resuscitation, to include austere/forward surgery while operating in disease
203 endemic areas where casualty evacuation is delayed or unavailable. In addition, proposals that
204 investigate or develop wireless biosensors should demonstrate physiological monitoring capabilities
205 to include, but not limited to, heart rate, blood pressure, pulse oximetry, respiration rate,
206 capnography, core temperature, heart rate variability and compensatory reserve index (CRI).
207 Research and development of devices and sensors should include or plan for the capability to
208 transmit (Bluetooth) to Android handheld devices and tablets. (NOTE: Ideally, sensor and equipment
209 technologies should be electronically readable, scannable, or transmittable to the Battlefield Assisted
210 Trauma Distributed Observation Kit (BATDOK), an Android-driven, multi-patient, point of injury
211 casualty monitoring capability being fielded by the U.S. Air Force (USAF) Pararescuemen and other
212 SOF Medics. Novel devices are required which aid in measuring physiologic decompensation and/or
213 adequacy of treatment/resuscitation in the field environment and/or provide a trigger for a pre-
214 hospital medical intervention (i.e., validation of tissue (muscle) oxygen saturation (StO₂), CRI,
215 traumatic brain injury (TBI) measures, etc.

216

217 3. Portable Lab Assays and Diagnostics:

218 The proposed project must research, apply and/or develop novel concepts for portable and
219 environmentally stable far forward laboratory assays and diagnostics. Equipment should be
220 extremely portable, ruggedized, use limited or no external power, and any reagents should be self-
221 contained and stable in extreme environmental conditions. Preference will be given to proposals that
222 are field oriented, rugged, low weight/cube space and have little to no refrigeration requirements.
223 Additionally, novel wireless, transmittable or scannable solutions such as patches, scanner/readers or
224 other noninvasive technologies as described in paragraph 3.a. below are encouraged.

225

226 a. Occupational and Environmental Health (OEH) Hazards:

227 The proposed project must focus on development of novel methods and devices for rapid
228 identification and analysis of exposures to OEH hazards. Research must support the development
229 and analysis of handheld, field hardened, and environmentally stable analytical devices, monitoring
230 devices, dosimetry, assays for rapid on-site identification, and real-time analysis of OEH hazards in
231 air, water, and soil that could pose an acute or chronic health hazard to SOF personnel. Such OEH
232 hazards include toxic industrial chemicals/toxic industrial materials (TICs/TIMs), lead exposures,
233 food and water borne pathogens, toxins, biological agents, and radiological material exposures.
234 Research consideration should be given to development of small lightweight and programmable
235 unmanned underwater vehicles (UUV) and unmanned aerial vehicles (UAV) to conduct
236 environmental analysis of OEH hazards in water, air, and soil. UUVs and UAVs must be capable of
237 travel to designated locations, conduct point of collection analysis of OEH hazards, transmit data,
238 and return to originating base.

239

240 4. Force Health Protection and Environmental Medicine:
241 SOF personnel must often operate for extended periods of time in austere environments that expose
242 them to extremes in altitude, temperature, humidity, wind, kinetosis, infectious diseases, toxic
243 industrial chemicals, toxic industrial materials, and environmental hazards (including envenomation).
244 In addition, the environment may be compromised due to chemical, biological, and radiological
245 contamination. The primary emphasis of this research area is to research, apply, and develop
246 techniques, therapeutic measures, and materiel (personal protective equipment (PPE), medical
247 devices, drugs, and biologics) to ensure sustained human performance and effectiveness while
248 operating in harsh environmental conditions and/or wearing appropriate PPE. Additional research
249 opportunities include identification and characterization of specific risk profiles/threats associated
250 with the SOF unique mission sets.

251
252 a. Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) Rapid Diagnostics,
253 Treatment, and Prophylaxis:

254 The proposed projects must research, apply, and/or develop novel approaches that will diagnose,
255 treat, and protect SOF personnel from exposure to chemical, biological, radiological, nuclear, and
256 high yield explosives in near real time.

257
258 b. Operational Monitoring:
259 The proposed project must seek to develop wireless biosensors for monitoring SOF personnel in
260 extreme environments (i.e., high altitude, whether in-flight or the environment itself, excessive heat
261 or cold, etc.), and potentially hazardous material exposure. Sensors should address physiological
262 measurements and/or chemical, biological and/or radiological hazards. For hazards monitoring, a
263 personal dosimetry device is desired that can detect and alarm based on radiation and chemical
264 presence. The alarming function can be pre-determined to account for known environmental
265 conditions (i.e., natural occurring radiation levels that are below threshold/detrimental health levels)
266 and Parts Per Million (PPM) counts that would trigger an alert. This detection device needs to be able
267 to alarm differently to identify the "type" of hazard(s), and to trigger a back-off and/or donning of
268 additional PPE. Monitoring should be capable of wirelessly communicating via Bluetooth to Android
269 handheld devices, tablets, or compatible wrist-mounted displays.

270
271 5. Brain Health:
272 Brain Health research efforts include, but are not limited to: development and validation of fieldable
273 Neurocognitive Assessment Tools (NCATs) and baseline testing, Comprehensive Symptom History
274 (CASH) collection, blast exposure and impact monitoring, determination of safe acceptable limits for
275 blast exposure, development and validation of capabilities to easily identify/diagnose mild, moderate,
276 and severe TBI, methods to prevent, screen for, monitor, and correct neuroendocrine dysfunction,
277 methods to prevent TBI from impact and blast such as redesign of helmets, body armor, and
278 munitions, development of pharmaceuticals to prevent and/or treat brain injury, validation of brain
279 injury prevention strategies, and development of return to duty decision support tools.

280
281 a. Environmental Exposures:
282 Research that develops novel material and/or approaches to protect SOF personnel from the
283 neurological effects of single and repetitive auditory (impulse noise) and non- auditory

284 (overpressure) blast exposures and other environmental factors determined to affect nervous system
285 function.

286

287 b. Environmental Exposure Effects:

288 Research that determines the neurocognitive and nervous system effects from single and repetitive
289 blast exposures, impulse noise, and other potential hazardous environmental factors.

290

291 c. Biomarkers:

292 Research to determine which biomarkers are indicative of mild, moderate, and severe TBI; sequelae
293 from TBI causing further injury; recovery status; and recovery rate from TBI. Testing and validating
294 diagnostic biomarkers for TBI. Proposals should also consider incorporation of validated biomarkers
295 onto existing or future diagnostic platforms. Use of machine learning and/or model development to
296 interpret and report biomarkers that are indicative of TBI are of interest.

297

298 d. Genetic Factors:

299 Research to determine if there are genetic predispositions, epigenetic changes and/or, genomic
300 modulators that affect the susceptibility to and recovery from TBI and neurotrauma.

301

302 e. Neuropsychological Testing:

303 Research to validate Neurocognitive Assessment Tools (NCATs) to determine baseline
304 neurocognitive status, readiness, neurocognitive degradation, sensitivity to various exposures, TBI
305 and recovery status post injury. Proposals to improve the speed, accuracy, specificity, and proximity
306 to injury for the use of NCATs, as well as to compare new technologies and/or modalities (including
307 passive assessment of cognition) to existing NCATs.

308

309 f. Affect testing. Research to develop and validate baseline and transient affect testing or
310 assessment tools to measure emotion and/or mood, to monitor change in emotion and/or mood
311 after TBI, and to investigate the effects of emotion or mood status on functional performance.

312

313 g. Olfactory, Oculomotor, Auditory, Vestibular, Cranial Nerve, and Vocal-Acoustic
314 Performance:

315 Research and proposals to perform and validate oculomotor, auditory, vestibular, cranial nerve, and
316 vocal acoustic assessments. Research and proposals to assess the effect of nervous system injury to
317 oculomotor, auditory, vestibular, cranial nerve, and vocal-acoustic performance and strategies to
318 restore their performance after injury and prevent injury or further decline.

319

320 h. Postural Stability:

321 Research to assess the effects of blast exposure on postural stability including the proprioceptive
322 component. Novel treatment strategies, therapies, and therapeutics to prevent and/or correct
323 detriment to postural stability from TBI and neurotrauma caused by blast, impact, and/or other
324 environmental exposures.

325

326 i. Neuroendocrine Dysfunction:

327 Methods to prevent, screen for, monitor, and correct neuroendocrine dysfunction.

328

329 j. Neuroimaging:

330 Research into novel imaging and imaging interpretation techniques including, but not limited to
331 Computed Axial Tomography (CAT), Magnetic Resonance Imaging (MRI), and Positron emission
332 tomography (PET) scans, to diagnose brain tissue pathologies including, but not limited to, axonal
333 injury, myelin injury, and astroglial scarring without the need for immunohistochemistry,
334 immunofluorescence, or histopathology testing.

335

336 k. Analytics:

337 Research into analysis including Machine Learning, Natural Language Processing, and Artificial
338 Intelligence enabled analysis of data including, but not limited to, NCATs; environmental exposures
339 likely to affect brain health; blast, impact, and noise exposures; auditory, vestibular, and vocal
340 acoustic assessments; postural stability assessments; and neuroimaging.

341

342 l. Neuromodulation:

343 Research into the use of neuromodulation techniques for treating TBI, neurotrauma, pain, restoring
344 and improving function, and improving behavioral health.

345

346 m. Brain Lymphatics and Glymphatics:

347 Research into measuring the fluid dynamics of the brain lymph system, diagnosing dysfunction, and
348 validation for tools or techniques to improve brain lymph clearance.

349

350 n. Pupillometry, Pupillary Response and Microsaccades:

351 Research into field capable pupillary response measurement capture and analysis, with or without the
352 ability to capture microsaccades in order to assess central nervous system loading and/or damage.

353

354 6. Immune Response:

355 The use of modified and novel strategies to cause, strengthen, or supplement immunity through the
356 use of, but not limited to mRNA vaccines, nanolipoprotein particles (NLPs), polyvalent vaccines,
357 and phages.

358

359 7. Chronic Pain:

360 The proposed research must address the development of novel, non-opioid treatments for chronic
361 pain with or without the presence of migraines, allodynia, or fibromyalgia; but not with
362 accompanying myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) or cancer.

363

364 8. Automation of Systematic Reviews and Metanalysis:

365 Research into Automation of Systematic Reviews and Metanalysis using the Preferred Reporting
366 Items for Systematic Reviews and Meta Analyses (PRISMA) or a similar method.

367

368 9. Medical Simulation and Training Technologies:

369 The proposed project must research, apply and/or develop improved pre-hospital tactical combat
370 casualty care (TCCC) training with an emphasis on the SOF pre-hospital providers. Medical
371 simulations should replicate all phases of the pre-hospital combat environment, including care under

372 fire, tactical field care and casualty evacuation. Human-like simulators should bleed, breath, void,
373 have a physiologically relevant temperature, pulse, and response to medical care with little to no
374 operator/controller input, should be all-weather capable and should evoke an emotional response
375 from those with whom it interacts. Medical training simulations should capture and be capable of
376 providing a report on the timing, appropriateness, and effectiveness of medical treatment. All
377 material solutions should meet joint airworthiness standards. Additionally, there is interest in
378 research focused on validating or measuring the effectiveness of current medical simulation and
379 training technologies and in determining the best methods of acquiring and maintaining PFC skills as
380 well as the impact of these skills on patient outcomes. In addition, the proposed project must research
381 the efficacy of using stress inoculation training (vs traditional didactics or other instructional
382 methods) to teach key TCCC skills (e.g., tourniquets, IV placement, etc.). Of particular interest are
383 the effects on stress response, performance, and decision making of the student as well as best
384 methods for optimizing performance in high stress situations as well as mitigating negative aspects of
385 stress.

386
387 10. Human Performance Optimization:
388 USSOCOM requires SOF personnel to withstand extraordinary physical demands and psychological
389 stress to complete their missions. The optimization of SOF personnel's ability to perform at very
390 high levels for long durations, in addition to processing information and making critical decisions in
391 a timely manner, while operating in extreme environments, will significantly improve their overall
392 operational effectiveness. This research area explores alternatives and/or new approaches to sustain
393 and optimize SOF human performance.

394
395 a. Improved Sleep:
396 The proposed project must research, apply and/or develop novel approaches to achieve the
397 restorative effects of sleep. This may include methods to induce, maintain, or improve the quality of
398 sleep throughout the entire night. Additionally, the ability to accelerate the effects of sleep through
399 methods requiring less time (e.g., the effects of sleeping eight hours are realized in four hours' time)
400 or enabling the SOF personnel to quickly reach and adequately cycle through the stages of sleep
401 where the highest restorative effects occur (i.e., Stage 3/ deep sleep, and Stage 4/rapid eye movement
402 sleep).

403
404 b. Optimal Acclimatization Strategies:
405 The proposed project must research, apply, and/or develop novel approaches and/or technologies that
406 provide rapid and sustainable human acclimatization in austere environments, to include fatigue
407 countermeasure, extremes in temperature, extremes in altitude, and time-zone change (i.e., circadian
408 acclimatization).

409
410 c. Wearables:
411 The proposed project must research , apply, and/or develop novel approaches and/or wearable
412 technologies that will monitor physiological measures of human performance to include, but not
413 limited to, caloric expenditure, heart rate/heart rate response, heart rate variability, body fat
414 percentage, sleep hygiene (deep and REM sleep duration) in real-time. Measures should be accurate
415 with low fixed bias, wirelessly communicated via Bluetooth, Near Field Magnetic Induction or

416 Radio Frequency technology in real-time and provide the command the capability to utilize the data
417 for analysis of individuals and/or team performance via the USSOCOM Human Performance Data
418 Management System (i.e., Smartabase). The device should be able to be turned on/off and/or have an
419 inactive mode, provide real-time feedback on a display screen, be capable of displaying time, and be
420 adjustable to fit users of different statures. Of parallel interest to address is a proposed project to track
421 aircrew sleep, fatigue, and performance degradations through a wearable device that provides
422 quantitative data (rather than qualitative surveys often seen in USAF Fatigue Studies), that in turn
423 will be gathered and amalgamated from entire units, in order to track individual performance, unit
424 performance, mission impacts to performance levels, length of time for acclimatization (if it is ever
425 achieved), and potential risk of mishaps.

426

427 d. Diagnostics for Performance Sustainment:

428 The proposed project must research, apply, and/or develop minimally invasive diagnostic devices to
429 provide actionable information on nutritional gaps, hormonal response to training, physiological
430 response to performance interventions and recovery, and epigenetic predictors of potential injury.

431

432 e. Performance Nutrition:

433 The proposed projects must research, apply and/or develop methods to accurately measure nutritional
434 status of SOF personnel. The proposed project should focus on cost effectiveness, accuracy, and
435 end-user compatibility (i.e., user friendly) methods or devices for identifying and optimizing an
436 individual's nutrient status. Consideration of alternative fuel (energy) sources, dietary
437 supplementation, and nutrient volume/timing are specific areas of interest.

438

439 f. Pharmaceutical and Nutritional Supplement Interactions:

440 The proposed project must research, apply, and/or develop novel approaches to determining what, if
441 any, meaningful interactions occur between and among SOF-common medications (i.e., over-the-
442 counter (OTC) or prescription (Rx) and commonly ingested/commercially available nutritional
443 supplements).

444

445 g. Physiological Performance:

446 The proposed project must research, apply, and/or develop novel approaches and/or technologies to
447 maximize the physiological performance of SOF personnel in austere and/or training environments,
448 to include increased endurance, enhanced senses, tolerance to environmental extremes, and enhanced
449 overall fitness, in order to maintain operational posture/ability in high stress scenarios without
450 noticeable augmentation, and without hampering personnel mobility.

451

452 h. Cognitive Performance:

453 The proposed project must research, apply, and/or develop novel approaches and/or technology that
454 provide greater mental acuity or neuroenhancement (i.e., targeted enhancement and extension of
455 cognitive and affective abilities). Encompasses pharmacological and non-pharmacological methods
456 of improving cognitive, affective, motor functionality and performance, to include neuromodulation.

457

458 i. Psychological Performance and Suicide Prevention:

459 The proposed project must research, apply, and/or develop novel approaches to the assessment and
460 improvement of behavioral health within the force. Examples include but are not limited to, novel
461 approaches to treatment and rehabilitation from acute and/or chronic post-traumatic stress,
462 depression, and anxiety, improved emotional and nervous system self-regulation, digital/virtual
463 engagement strategies, methods to measure behavioral health performance over time, and improved
464 suicide prevention tools/strategies.

465
466 j. Family Readiness and Social Connectedness:

467 The proposed project must research, apply, and/or develop novel approaches to increase healthy SOF
468 family functioning. Family functioning includes positive interpersonal relationships, personal
469 resilience, self-efficacy, and the development of supportive social networks. Potential research could
470 determine what educational and didactic experiences best improve these factors of healthy SOF
471 family and relational functioning.

472
473 k. Spiritual Resilience:

474 The proposed project must research, apply, and/or develop innovative approaches to increase SOF
475 spiritual resilience or add scientific rigor to support current approaches. Spiritual resilience includes
476 religious practice, morals, ethics (such as just war tradition), connectedness, sense of purpose and
477 belonging. Potential research could determine what types of spiritual training or engagements best
478 improve these factors of spiritual resilience.

479
480 11. Canine Medicine and Performance:

481 SOF personnel rely on canines' exceptional capabilities as combat multipliers. This research area
482 explores alternatives and/or new approaches to preserve and enhance SOF canine combat
483 performance. SOF medical personnel place a premium on canine-specific approaches that are
484 effective in extreme environments and do not require significant additional logistical support (i.e.,
485 maximize use of available SOF Medic materiel). The eight "Canine Medicine and Performance"
486 project areas, to which SOF will give consideration, in priority order, are:

487
488 a. Trauma Resuscitation:

489 The proposed project must support development of innovative techniques/strategies for canine
490 trauma resuscitation (e.g., hypotensive resuscitation, whole blood/blood component replacement, and
491 non-compressible hemorrhaging), particularly to address ballistic projectile injuries, in
492 diverse/austere environments that lack immediately available medical evacuation or restorative
493 surgical capacity.

494 Note: Research should minimize or refrain from utilizing canine specific equipment or devices; this
495 will allow treatment from existing trauma kits fielded by SOF Medics.

496
497 b. Non-Traditional Anesthesia Protocols:

498 The proposed project must develop novel approaches for routine and emergency/post-traumatic
499 canine field sedation and/or anesthesia in diverse environments and, utilizing pharmaceuticals
500 available to SOF Medics.

501
502 c. Canine Performance Optimization

503 The proposed project must research, apply, and/or develop novel approaches and/or technologies that
504 address optimization of canine performance through improved physical conditioning programs,
505 enhanced nutrition, and genetics research.

506

507 d. Sensory Optimization and Protection:

508 Research must be oriented toward innovative methods that enhance or conserve SOF canine
509 olfactory, visual, and/or auditory performance during combat operations.

510

511 e. Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) Canine Decontamination,
512 Treatment, and PPE Against Possible Exposure:

513 The proposed projects must research, apply, and/or develop novel approaches that will diagnose,
514 treat, decontaminate, and protect canines from exposure to chemical, biological, radiological,
515 nuclear, and high yield explosives.

516

517 f. Environmental Extremes:

518 Project proposals must research, apply, and/or develop novel strategies that address acclimatization
519 to acute extremes in temperature, altitude, and/or time zone change (circadian acclimatization),
520 and/or prolonged marine environmental exposure in SOF canines.

521

522 g. Brain Health and TBI

523 Brain health research efforts include but are not limited to development and validation of NCATs,
524 blast exposure and impact monitoring, determination of safe acceptable limits for blast exposure,
525 validation of neurocognitive baseline testing, capabilities to easily determine mild, moderate, and
526 severe TBI, pharmaceuticals to prevent or treat brain injury, validation of brain injury treatment
527 strategies, and procedures to determine safe return to duty decisions for SOF canines.

528

529 h. Pre- and Post-Trauma Training / Behavioral Issues:

530 The proposed project must address unique approaches to diagnosing and treating SOF-peculiar
531 training and post-traumatic canine behavioral issues, in order to optimize pre-purchase selection and
532 post-purchase training strategies across the enterprise and restore performance in canines with
533 behavioral and/or post-trauma issues.

534

535 i. Canine Simulation Technologies:

536 Develop improved pre-hospital canine combat casualty simulation training devices with an emphasis
537 on Special Operations Forces (SOF) pre-hospital providers. The proposed projects must research and
538 apply/or develop novel approaches for high-fidelity canine trauma training simulation devices with
539 physiologically relevant feedback to include temperature, pulse, lifelike size and weight, realistic fur,
540 active bleeding, anatomically accurate airways, and haptic technology. Canine training devices
541 should respond to medical treatments with little to no operator/trainer intervention and capture and
542 provide accurate casualty care feedback. All simulators/simulations should meet Joint Airworthiness
543 Standards.

544

545

546 **II.B. Federal Award Information**

547
548 The Anticipated total costs budgeted for the entire period of performance inclusive of all contract
549 awards made in response to this BAA, will not exceed \$10 Million annually. The number of
550 awards is indeterminate and **contingent upon funding availability**. Any funding that is received
551 by the USSOCOM that is appropriate for a research area described within this BAA may be
552 utilized to fund awards. Refer to Section II.D.5. Funding Restrictions, for detailed funding
553 information.

554
555 The USAMRAA will negotiate the contract awards for proposals selected for funding. A contract
556 is required when the principal purpose of the instrument is to acquire supplies or services for the
557 direct benefit or use of the U.S. Government. The contract type, along with the start date, will be
558 determined during the negotiation process.

559
560 Please see Appendix 2 of the General Submission Instructions for more information.

561
562 **Research involving Human Anatomical Substances, Human Subjects, or Human Cadavers:**

563 All DoD-funded research involving new and ongoing research with human anatomical
564 substances, human subjects, or human cadavers must be reviewed and approved by the
565 USAMRDC Office of Human Research Oversight (OHRO),, prior to research implementation.
566 This administrative review requirement is in addition to the local Institutional Review Board
567 (IRB) or Ethics Committee (EC) review. Local IRB/EC approval at the time of submission is
568 not required. The OHRO Human Research Protections Official (HRPO) review is mandated to
569 comply with specific laws and requirements governing all research involving human anatomical
570 substances, human subjects, or human cadavers that is supported by the DoD. These laws and
571 requirements will necessitate information in addition to that supplied to the IRB/EC. ***Allow a***
572 ***minimum of 2 to 3 months for OHRO HRPO regulatory review and approval processes.***
573 Additional time for regulatory reviews may be needed for clinical studies taking place in
574 international settings. When possible, protocols should be written for research with human
575 subjects and/or human anatomical substances that are specific to the DoD-supported effort
576 outlined in the submitted proposal/application as a stand-alone study. Submission to OHRO of
577 protocols involving more than the scope of work in the DoD-funded award will require review of
578 the entire protocol (DoD and non-DoD funded). DoD human subjects protection requirements
579 may be applied to non-DoD funded work and necessitate extensive revisions to the protocol.
580 Refer to the General Submission Instructions, Appendix 1, and the Human Subject Resource
581 Document available on the eBRAP “Funding Opportunities & Forms” web page
582 (<https://ebrap.org/eBRAP/public/Program.htm>) for additional information.

583
584 Typically, a clinical trial is not associated with this BAA. A clinical trial is defined as a
585 prospective accrual of patients (human subjects) in which an intervention (e.g., device, drug,
586 biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested
587 for a measurable outcome with respect to safety, effectiveness, and/or efficacy. This outcome
588 represents a direct effect on the subject of that intervention or interaction.

589

590 **Research Involving Animals:** All DoD-funded research involving new and ongoing research
591 with animals must be reviewed and approved by the USSOCOM Veterinarian Review Office
592 (VRO) which ensures that research conducted, contracted, sponsored, supported, or managed by
593 the DoD involving animal care are conducted in accordance with federal, DoD, Army,
594 USSOCOM VRO, and international regulatory requirements. The USSOCOM VRO is
595 responsible for administrative review, approval, and oversight of all animal research protocols,
596 including all changes made during the life of the protocol.

597 Specific documents relating to the use of animals in the proposed research will be requested **if**
598 **the application is selected for funding**. The VRO must review and approve all animal use prior
599 to the start of working with animals, including amendments to ongoing projects. PIs must
600 submit the institutional animal use protocol. *Allow at least 1 to 2 months for regulatory review*
601 *and approval processes for animal studies*.

602
603 Questions concerning animal use and review should be directed to the USSOCOM VRO:
604 Phone: 813-826-6031; Email: socom_vet@socom.mil.

605
606 Refer to the General Submission Instructions, Appendix 1, for additional information.

607
608 The USSOCOM intends that information, data, and research resources generated under awards
609 funded by this BAA be made available to the research community (which includes both
610 scientific and consumer advocacy communities) and to the public at large.

611 **II.C. Eligibility Information**

612 **II.C.1. Eligible Applicants**

613 614 **II.C.1.a. Organizations:**

615
616 Awards are made to organizations only. Organizations eligible to apply include national,
617 international, for-profit, non-profit, public, and private organizations. Refer to the General
618 Submission Instructions, Appendix 3.B, for general eligibility information.

619 **NOTE:** In accordance with FAR 35.017, Federally Funded Research and Development Centers
620 (FFRDCs) are not eligible to directly receive awards under this BAA. However, teaming
621 arrangements between FFRDCs and eligible organizations are allowed so long as they are
622 permitted under the sponsoring agreement between the Federal Government and the specific
623 FFRDC.

624 The USSOCOM is committed to supporting small businesses. Small business, Veteran-owned
625 small business, Service-disabled Veteran-owned small business, HUBZone small business, small
626 disadvantaged business, and woman-owned small business concerns must be given the
627 maximum practical opportunity to participate through subawards on research proposals
628 submitted through the BAA.

629 **II.C.1.b. Eligible Investigators**

630

631 Eligible investigators include all individuals, regardless of ethnicity, nationality, or citizenship
632 status, who are employed by, or affiliated with, an eligible organization.

633
634 There are no limitations on the number of proposals for which an investigator may be named as a
635 Principal Investigator (PI).

636 The USAMRAA makes awards to eligible organizations, not to individuals.
637 In addition to other information provided herein, by submitting a proposal/application and
638 accepting an award, the organization is: (1) certifying that the investigators' credentials have
639 been examined and; (2) verifying that the investigators are qualified to conduct the proposed
640 study and to use humans or animals as research subjects, if proposed.

641 **II.C.2. Cost Sharing**

642
643 Cost sharing/matching is not an eligibility requirement.

644 **II.C.3. Other**

645
646 Organizations must be able to access .gov and .mil websites in order to fulfill the financial and
647 technical deliverable requirements of the award and submit invoices for payment.

648 Refer to [Section II.H.1, Administrative Actions](#), for a list of administrative actions that may be
649 taken if a pre-application or application does not meet the administrative, eligibility, or ethical
650 requirements defined in this BAA.

651 For general information on required qualifications for award recipients, refer to the General
652 Submission Instructions, Appendix 3.

653 ***Use of the System for Award Management (SAM) and the Responsibility/Qualification (R/Q):***
654 To protect the public interest, the Federal Government ensures the integrity of Federal programs
655 by striving to conduct business only with responsible organizations. The USSOCOM uses the
656 "Exclusions" within the Performance Information functional area of the SAM and data from the
657 R/Q, a component within SAM, to verify that an organization is eligible to receive Federal
658 awards. More information about the SAM and the R/Q is available at <https://www.sam.gov/>.
659 Refer to the General Submission Instructions, Appendix 3, for additional information.

660 ***Conflicts of Interest:*** All awards must be free of conflicts of interest (COIs) that could bias the
661 research results. Prior to award of a contract, applicants will be required to disclose all potential
662 or actual COIs along with a plan to manage them. An award may not be made if it is determined
663 by the Contracting Officer that COIs cannot be adequately managed. Refer to the General
664 Submission Instructions, Appendix 3, for additional information.

665 ***Review of Risk:*** The following areas may be reviewed in evaluating the risk posed by an
666 applicant: Financial stability; quality of management systems and operational controls; history
667 of performance; reports and findings from audits; ability to effectively implement statutory,
668 regulatory, or other requirements imposed on non-Federal entities; degree of institutional

669 support; integrity; adequacy of facilities; and conformance with safety and environmental
670 statutes and regulations.

671
672 **Subcontracting Plan:** If the resultant award is a contract that exceeds \$750,000 and the offeror
673 is other than a small business, the contractor will be required to submit a subcontracting plan for
674 small business and small disadvantaged business concerns, in accordance with FAR 19.704 and
675 DFARS 219.704. A mutually agreeable plan will be incorporated as part of the resultant
676 contract.

677 **II.D. Proposal/Application Submission Information**

678

679 **II.D.1. Where to Obtain the Proposal/Application Submission Package**

680

681 To obtain the complete Grants.gov proposal/application package (hereinafter, submission
682 package), including all required forms, perform a Grants.gov (<http://www.grants.gov/>) basic
683 search using the Funding Opportunity Number **HT9425-23-S-SOC1**.

684 Submission is a two-step process requiring both (1) pre-proposal/pre-application submission
685 through eBRAP (<https://eBRAP.org/>) and (2) full proposal/application submission through
686 Grants.gov or eBRAP, depending on the type of application being submitted.

687 eBRAP is a multifunctional web-based system that allows PIs to submit their pre-applications
688 electronically through a secure connection, to view and edit the content of their pre-applications
689 and full applications, to receive communications from the USSOCOM, and to submit
690 documentation during award negotiations and period of performance.

691 Classified Submissions: Classified proposals are not expected. However, in an unusual
692 circumstance the applicant may be notified that access to classified information and/or controlled
693 unclassified information will occur under the work proposed. In those instances where a contract
694 is awarded requiring access to classified information and/or controlled unclassified information,
695 clause FAR 52.204-2 shall be in effect, as well as a DD Form 254, if issued.

696 Care must be exercised to ensure that classified, sensitive, and critical technologies are not
697 included in a proposal/ application package. If such information is required, appropriate
698 restrictive markings and procedures should be applied prior to submission of the proposal/
699 application package. Portions of the proposal/ application package may be subject to release
700 under terms of the Freedom of Information Act, 5 U.S.C. 552, as amended.

701
702 Pre-application content and forms must be accessed and submitted at eBRAP.org. Full
703 application packages must be accessed and submitted at Grants.gov.

704 Contact information for the eBRAP Help Desk and the Grants.gov Contact Center can be found
705 in [Section II.G, Federal Awarding Agency Contacts](#).

706

707 **II.D.2. Content and Form of the Proposal/Application Submission**

708 Submission is a two-step process requiring both *pre-application* submission and *full application*
709 submission as indicated below. The submission process should be started early to avoid missing
710 deadlines. There are no grace periods.

711 **Pre-Application Submission:** All pre-applications for both extramural and intramural
712 organizations must be submitted through eBRAP (<https://eBRAP.org/>).

713 **Full Application Submission:** Full applications must be submitted through the online portals as
714 described below.

715 **Submitting Organizations:** Full applications from extramural organizations must be submitted
716 through a Grants.gov Workspace. Applications submitted by extramural organizations (e.g.,
717 research foundations) on behalf of intramural DoD or other Federal organizations or
718 investigators will be considered extramural submissions. Applications from extramural
719 organizations, including non-DoD Federal organizations, received through eBRAP will be
720 withdrawn. See definitions in [Section II.C.1, Eligible Applicants](#).

721 A key feature of eBRAP is the ability of an organization’s representatives and PIs to view and
722 modify the full application submissions associated with them. eBRAP will validate full
723 application files against the specific BAA requirements, and discrepancies will be noted in an
724 email to the PI in the “Full Application Files” tab in eBRAP. It is the applicant’s responsibility
725 to review all application components for accuracy as well as ensure proper ordering as specified
726 in this BAA.

727 ***The application title, eBRAP log number, and all information for the PI, Business Official(s),***
728 ***performing organization, and contracting organization must be consistent throughout the***
729 ***entire pre-application and full application submission process.*** Inconsistencies may delay
730 application processing and limit or negate the ability to view, modify, and verify the application
731 in eBRAP. If any changes need to be made, the applicant should contact the eBRAP Help Desk
732 at help@eBRAP.org or 301-682-5507 prior to the application submission deadline.

733 **II.D.2.a. Step 1: Pre-Proposal/Pre-Application Submission Content**

734 Submission of a pre-proposal/pre-application is required and must be submitted through eBRAP
735 (<https://eBRAP.org/>). If the USSOCOM is interested in receiving a full proposal/application, the
736 PI will be sent an invitation to submit via eBRAP.

737
738 During the pre-proposal/pre-application process, each submission is assigned a unique log
739 number by eBRAP. This unique eBRAP log number is required during the full application
740 submission process. To begin the pre-application process, first select whether the submitting
741 organization is extramural or intramural, then confirm your selection or cancel. **Incorrect**
742 **selection of extramural or intramural submission type will delay processing.**

743
744 If an error has been made in the selection of extramural versus intramural and the pre-application
745 submission deadline has passed, the PI or Business Official must contact the eBRAP Help Desk
746 at help@eBRAP.org or 301-682-5507 to request a change in designation.

747 Because the invitation to submit a proposal/application is based on the contents of the pre-
748 proposal/pre-application, a PI should not change the title or research objectives after the pre-
749 proposal/pre-application is submitted. A PI and organization identified in the pre-proposal/pre-
750 application should be the same as those intended for the full proposal/application submission. If
751 any changes are necessary after submission of the pre-proposal/pre-application, the PI must
752 contact the eBRAP Help Desk via email at help@eBRAP.org or 301-682-5507. A change in PI
753 or organization after submission of the pre-proposal/pre-application will be allowed only at the
754 discretion of the USAMRAA Contracting Officer. Change in Principal Investigator during
755 contract performance unless otherwise restricted, will be allowed at the discretion of the
756 USAMRAA Contracting Officer, provided that the intent of the award is met.

757
758 The organization, Business Official, and PI must register in eBRAP before submitting a pre-
759 proposal/pre-application. Upon completion of an organization’s registration in eBRAP and
760 approval by the eBRAP Help Desk, the organization name will be displayed in eBRAP to assist
761 the organization’s Business Officials and PIs as they register. The organization, Business
762 Officials, and PIs must all be registered and affiliated in eBRAP. (See *eBRAP User Guide* at
763 <https://ebrap.org/eBRAP/public/UserGuide.pdf>.)
764

765 Pre-proposals may be submitted at any time prior to the BAA closing date. Pre-proposals should
766 describe specific ideas or projects that pertain to any of the areas described under “Program
767 Description” in this BAA. A pre-proposal/pre-application must include a brief description of the
768 scientific methods and design to address the problem as described below. Brochures or other
769 descriptions of general organizational or individual capabilities will not be accepted as a pre-
770 proposal/pre-application. ***DO NOT include any proprietary information in the pre-***
771 ***proposal/pre-application.***

772
773 The pre-proposal/pre-application consists of the following components, which are organized in
774 eBRAP by separate tabs. Refer to the General Submission Instructions, Section II, for additional
775 information on the pre-proposal/pre-application submission.

- 776
777 • **Tab 1 – Application Information:** Enter the information as described in eBRAP before
778 continuing the pre-proposal/pre-application.

- 779 • **Tab 2 – Application Contacts:** Enter contact information for the PI and the
780 organization’s Business Official responsible for the sponsored program administration (or
781 equivalent). This is the individual listed as “person to be contacted on matters involving
782 this Application” in Block 5 of the Grants.gov SF424 form. The form is designed to fill in
783 common required fields across other forms, such as the applicant name, address, and
784 Unique Entity Identifier (UEI) Number. Once it is completed, the information will
785 transfer to the other forms.

786
787 The Business Official must either be named or invited in order for the pre-proposal/pre-
788 application to be submitted. If the organization’s Business Official is not in eBRAP, an
789 invitation to the Business Official to register in eBRAP must be sent. In addition, it is
790 recommended that the applicant identify an Alternate Submitter in the event that
assistance with pre- proposal/pre-application submission is needed.

791 **NOTE:** The eBRAP system does not require an approval of the pre-proposal/pre-
792 application by the PI’s organization.
793

794 • **Tab 3 – Collaborators and Key Personnel:**

795 Enter the name, organization, and role of all collaborators and key personnel associated
796 with the Application (including co-investigators, mentors, collaborators, consultants, and
797 subrecipients/subawardees) associated with the proposal/ application. Enter the
798 organization’s Business Official responsible for sponsored program administration (the
799 “person to be contacted on matters involving this Application” in Block 5 of the
800 Grants.gov SF-424 form). The Business Official must either be selected from the eBRAP
801 list or invited in order for the pre- proposal/pre-application to be submitted.
802

803 • **Tab 4 – Conflicts of Interest (COI):**

804 List all individuals other than collaborators and key personnel who may have a conflict of
805 interest (COI) in the review of the pre-proposal/pre-application (including those with
806 whom the PI has a personal or professional relationship). Federal agency personnel
807 involved in the review process and/or with making funding recommendations are
808 prohibited from being involved in the research proposed or assisting in any pre-
809 proposal/pre-application, including, but not limited to, concept design, proposal/
810 application development, budget preparation, and the development of any supporting
811 documentation. *If formal collaboration with Military Facility personnel is planned
812 (i.e., included in the proposal/application in performance of the research), this
813 prohibition is not applicable. Military Facility is defined as Military Health System
814 (MHS) facility, research laboratory, medical treatment facility, dental treatment
815 facility, or a DoD activity embedded with a civilian medical center. However, these
816 Military Facility personnel cannot be involved in the review process and/or with
817 making funding recommendations.* Refer to the General Submission Instructions,
818 Appendix 3.D, for additional information. For questions related to COI, contact the
819 eBRAP Help Desk at help@eBRAP.org or 301-682-5507.
820

821 • **Tab 5 – Pre-Application Files:**

822 *Note: Upload document(s) as individual PDF files unless otherwise noted. eBRAP will*
823 *not allow a file to be uploaded if the number of pages exceeds the limit specified below.*
824

825 **Pre-Proposal/Pre-Application Narrative (6-page limit):** The pre-proposal/ pre-
826 application narrative page limit applies to text and non-text elements (e.g., figures, tables,
827 graphs, photographs, diagrams, chemical structures, drawings, etc.) used to describe the
828 project. Inclusion of URLs that provide additional information to expand the Narrative
829 and could confer an unfair competitive advantage is prohibited and may result in
830 administrative withdrawal of the pre-proposal/pre-application.
831

832 **Include the following:**

- 833 ○ **Problem to Be Studied:** Describe the perceived issue(s) and the problems to be
834 studied. This section should serve as an abstract of the proposed work.

- 835 ○ **Theoretical Rationale, Scientific Methods, and Design:** Describe how the
836 research approach for accomplishing the specific aims is feasible, will
837 accomplish the objectives, will provide information on proposed methods and
838 analysis/evaluation strategies, and is based on sound rationale. Describe how the
839 proposed work and research will create and produce a demonstration and
840 validation/proof of concept to meet the subject Topic Area.
- 841 – **Background/Rationale:** Clearly present the ideas and reasoning behind
842 the proposed research. Include relevant military and civilian literature
843 citations, preliminary and/or pilot data, and/or other evidence that led to
844 the development of the proposed research. Any preliminary data should
845 be from the laboratory of the PI or member(s) of the collaborating team.
846
 - 847 – **Hypothesis/Objective and Specific Aims:** State the proposed project’s
848 hypothesis and/or objectives and the specific aims/tasks of the proposed
849 research.
850
 - 851 – **Approach/Methodology:** Describe the research approach. Include
852 research design, methods, and analysis/evaluation strategies as well as
853 materials anticipated to be used during the research. Include a description
854 of human use in the proposed project. For studies involving human
855 subjects, include a description of the size, characteristics, and partnering
856 organizations of the subject population that will be employed.
857
- 858 ○ **Significance, Relevance, and Innovation of the Proposed Effort:**
- 859 – **Significance and Relevance:** Clearly articulate how the proposed research is
860 instrumental in addressing research gaps, meets military requirements, and has
861 military relevance to improving theater/operational medicine.
862
 - 863 – **Innovation:** Explain how the proposed project is innovative and not an
864 incremental advancement of previous work.
865
- 866 ○ **Proposed Study Design/Plan:** Provide the intended research methodology that
867 will support the study. Provide preliminary information such as description and
868 background of the technical solution, anticipated success criteria, research/test
869 plan(s), and statistical protocols. Refer to Section II.A., Program Description, for
870 additional information on the RAIs for this BAA.
- 871
- 872 ○ **Military Impact:** Describe the anticipated short- and/or long-term outcomes of the
873 proposed project and their potential impact on improving technologies, data and/or
874 processes. Refer to Section II.A., Program Description, for additional information on
875 the anticipated outcomes sought by this BAA.
876
- 877 ○ **Personnel and Facilities:** Describe the role of the PI, co-PIs (if applicable), key
878 personnel, sub-awards (if applicable), and consultants (if applicable) in the research

879 team, including the expertise each brings to the proposed project. Explain how the
880 team’s expertise is appropriate and complementary for achieving the research goals.
881 Also, briefly provide information on the primary facility where the research is
882 expected to be performed.

- 883 ○ **Open Source/License/Architecture:** Describe the intellectual property that is
884 intended to be incorporated within the design/plan and identify any additional
885 costs, such as licensing, which may be needed to ensure flexibility or adaption of
886 the research project for Government use.

887
888 **Pre-Proposal/Pre-Application Supporting Documentation:** The items to be included as
889 supporting documentation for the pre-proposal/pre-application *must be uploaded as individual*
890 *PDF documents* and are limited to:

- 892 ○ **References Cited (one-page limit):** List the references cited (including URLs if
893 available) in the pre-proposal/pre-application narrative using a standard reference
894 format that includes the full citation (i.e., author[s], year published, title of reference,
895 source of reference, volume, chapter, page numbers, and publisher, as appropriate).
 - 897 ○ **List of Abbreviations, Acronyms, and Symbols:** Provide a list of abbreviations,
898 acronyms, and symbols used in the pre-proposal/pre-application narrative.
 - 900 ○ **PI and Key Personnel Biographical Sketches (five-page limit per individual):**
901 Upload as “Biosketch_LastName.pdf.” Bold or highlight publications relevant to the
902 proposed project.
 - 904 ○ **Budget Summary: Upload as “BudgetSummary.pdf.”** Complete the two-page Pre-
905 Application Budget Summary Form (available for download in eBRAP) as instructed.
 - 907 ○ **Quad Chart: Upload as “QuadChart.pdf.”** Complete the one-page Quad Chart
908 Form (available for download in eBRAP) as instructed.
- 909
910 □ **Submit Pre-Application – Tab 6:** This tab must be completed for the pre-
911 proposal/preapplication to be accepted and processed.

912 **II.D.2.b. Pre-Proposal/Pre-Application Screening Criteria**

913 The USSOCOM scientists or outside experts will screen pre-proposals for technical merit and
914 programmatic considerations. Based on the screening of the preproposal, a PI may be invited to
915 submit a full proposal/application. Pre- proposal will be screened based on the following
916 criteria, listed in descending order of importance:

- 918 • **Theoretical Rationale, Scientific Methods, and Research:** To what degree the
919 research approach for accomplishing the specific aims is feasible, will accomplish
920 the objectives, will provide information on proposed methods and analysis/

921 evaluation strategies, and is based on sound rationale. To what degree the proposed
922 work and research will create and produce a demonstration and validation/proof of
923 concept to address the Topic Area.
924

- 925 • **Significance, Relevance, and Innovation:** To what degree the proposed research is
926 relevant and innovative, including whether the proposed research is duplicative of
927 existing research.
928
- 929 • **Study Design/Plan:** To what degree the proposed demonstration and validation study
930 methodologies, anticipated sample and sample size, test plan(s), anticipated success
931 criteria, evaluation criteria/metrics, and statistical protocols will justify and support
932 the intended outcomes of the proposed research.
933
- 934 • **Military Impact:** To what degree the project’s anticipated short- and/or long-term
935 outcomes will impact the military and provide advancement in theater/operational
936 medicine in the military health system in a way that is consistent with the intent of
937 the award mechanism.
938
- 939 • **Personnel, Facilities, Timelines, and Budget:** To what degree the expertise,
940 experience, and knowledge of the key research personnel (including co-PIs if
941 applicable), sub-awards (if applicable), and consultants (if applicable) are
942 appropriate and complementary for achieving the research goals. To what degree
943 the prime facility will be able to perform the proposed research.
944

945 Following the pre-proposal/pre-application screening, PIs will be notified as to whether or not
946 they are invited to submit full proposals; however, they will not receive feedback (e.g., a critique
947 of strengths and weaknesses) on their pre-proposals. Within 180 days of submission, PIs should
948 receive email notification via eBRAP regarding disposition of their pre-proposals.
949

950 **A. II.D.2.c. Step 2: Full Proposal/Application Submission Content**

951 ***A Proposal/Application will not be accepted unless the PI has received an invitation to submit.***

952 If the USSOCOM is interested in receiving a full proposal/application, the PI will receive an
953 invitation to submit via email from eBRAP. It should be submitted within **60 days** of the PI’s
954 receipt of an invitation to submit, as directed in II.D.2. Agency receipt of a full
955 proposal/application will be acknowledged by an email sent to the PI via eBRAP. The
956 proposal/application log number for the full proposal/application will be the same number as
957 used for the pre-proposal/pre-application, e.g., BA23XX.

958 ***The USSOCOM cannot make allowances/exceptions to its policies for submission problems***
959 ***encountered by the applicant organization using system-to-system interfaces with Grants.gov.***

960 Each application submission must include the completed full application package for this BAA.
961 The full application package is submitted by the Authorized Organizational Representative
962 through Grants.gov (<http://www.grants.gov/>) for extramural organizations or through eBRAP
963 (<https://ebrap.org/>) for intramural organizations. See Table 1 below for more specific guidelines.

964 Proprietary information should *only be included if necessary* for evaluation of the
965 proposal/application. Conspicuously and legibly mark any proprietary information that is
966 included in the proposal/application.

967
968 **II.D.2.c.i. Full Guidelines**

969 Organizations must submit full applications through Grants.gov. Applicants must create a
970 Grants.gov Workspace for submission, which allows the application components to be
971 completed online and routed through the applicant organization for review prior to submission.
972 Applicants may choose to download and save individual PDF forms rather than filling out
973 webforms in the Workspace. A compatible version of Adobe Reader **must** be used to view,
974 complete, and submit an application package consisting of PDF forms. If more than one person
975 is entering text into an application package, the *same version* of Adobe Reader software should
976 be used by each person. Check the version number of the Adobe software on each user’s
977 computer to make sure the versions match. Using different versions of Adobe Reader may cause
978 submission and/or save errors – even if each version is individually compatible with Grants.gov.
979 Refer to the General Submission Instructions, Section III, and the “Apply For Grants” page of
980 Grants.gov (<https://www.grants.gov/web/grants/applicants/apply-for-grants.html>) for further
981 information about the Grants.gov Workspace submission process. Submissions of extramural
982 applications through eBRAP may be withdrawn.

983

Table 1. Full Submission Guidelines

Submissions
Download application package components for HT9425-23-S-SOC1 from Grants.gov (http://www.grants.gov) and create a Grants.gov Workspace. The Workspace allows online completion of the application components and routing of the application package through the applicant organization for review prior to submission.
SF424 Research & Related Forms (R&R) Application for Federal Assistance Form: Refer to the General Submission Instructions, Section III.A.1, for detailed information.
Submissions

984

Descriptions of each required file can be found under Full Application Submission Components:

- [Attachments](#)
- [Research & Related Personal Data](#)
- [Research & Related Senior/Key Person Profile \(Expanded\)](#)
- [Research & Related Budget](#)
- [Project/Performance Site Location\(s\) Form](#)
- [R&R Subaward Budget Attachment\(s\) Form](#) (if applicable) |
- *(if applicable)* [Additional Application Component\(s\)](#) |

Complete a Grants.gov Workspace.

Add participants (investigators and Business Officials) to the Workspace, complete all required forms, and check for errors before submission. The Workspace progress bar will display the state of your application process as you apply. As you apply using Workspace, you may click the blue question mark icon near the upper-right corner of each page to access context-sensitive help.

Mandatory Fields in Forms: In the forms, you will note fields marked with an asterisk and a different background color. These fields are mandatory fields that must be completed to successfully submit your application.

Submit a Grants.gov Workspace Package. An application may be submitted through Workspace by clicking the “Sign and Submit” button on the “Manage Workspace” page, under the “Forms” tab. Grants.gov recommends submission of the application package **at least 24-48 hours prior to the close date** to allow time to correct any potential technical issues that may disrupt the application submission.

Note: If either the Project Narrative or the budget fails eBRAP validation or if the Project Narrative

or the budget needs to be modified, an updated Grants.gov application package must be submitted via Grants.gov as a “Changed/Corrected Application” with the previous Grants.gov Tracking ID prior to the application submission deadline.

Submissions

The full application package submitted to Grants.gov may be viewed and modified in eBRAP until the end of the application verification period. During the application verification period, the full application package, *with the exception of the Project Narrative and Budget Form*, may be modified.

Tracking a Grants.gov Workspace Package.

After successfully submitting a Workspace package, a Grants.gov Tracking Number is automatically assigned to the package. The number will be listed on the “Confirmation” page that is generated after submission. Refer to the General Submission Instructions, Section III, for further information regarding Grants.gov requirements.

986 Application viewing, modification, and verification in eBRAP are strongly recommended, but
987 not required. ***The Project Narrative and Budget cannot be changed after the application***
988 ***submission deadline.*** Prior to the full application deadline, a corrected or modified full
989 application package may be submitted. Other application components may be changed until the
990 end of the application verification period. Verify that subaward budget(s) and budget
991 justification forms are present in eBRAP during the application verification period. If these
992 components are missing, upload them to eBRAP before the end of the application verification
993 period. After the end of the application verification period, the full application cannot be
994 modified.

995 ***Material submitted after the end of the application verification period, unless specifically***
996 ***requested by the Government, will not be forwarded for processing.***

997 **II.D.2.c.ii. Full Proposal/Application Submission Components**

998 The Grants.gov submission package includes the following components (refer to the General
999 Submission Instructions, Section III., for additional information on proposal/application
1000 submission):

1001

1002 **1. SF 424 (R&R) Application for Federal Assistance Form:** Refer to the General
1003 Submission Instructions, Section III for detailed information.

1004

1005 **2. Attachments Form**

1006 ***Each attachment to the full proposal/application components must be uploaded as an***
1007 ***individual file in the format specified and in accordance with the formatting guidelines***
1008 ***listed in the General Submission Instructions, Appendix 4.***

1009 For all attachments, ensure that the file names are consistent with the guidance. Attachments
1010 will be rejected if the file names are longer than 50 characters or have incorrect file names
1011 that contain characters other than the following: A-Z, a-z, 0-9, underscore, hyphen, space,
1012 and period. In addition, there are file size limits that may apply in some circumstances.
1013 Individual attachments may not exceed 20 MB, and the file size for the entire full
1014 proposal/application package may not exceed 200 MB.

1015 **Attachment 1: Project Narrative (20-page limit):** Upload as
1016 “ProjectNarrative.pdf.” The page limit of the Project Narrative applies to text
1017 and non-text elements (e.g., figures, tables, graphs, photographs, diagrams,
1018 chemical structures, drawings, etc.) used to describe the project. Inclusion of
1019 URLs that provide additional information to expand the Project Narrative and
1020 could confer an unfair competitive advantage is prohibited and will result in
1021 administrative withdrawal of the proposal/application.

1022 Describe the proposed project in detail using the outline below.

1023 **Background:** Present the ideas and reasoning behind the proposed
1024 research; include relevant literature citations or preliminary data on the
1025 proposed technical solution(s) and how they may have been utilized in
1026 similar environment(s). Describe previous experience most pertinent to this

- 1027 project. Any preliminary data should be from the laboratory of the PI or
1028 member(s) of the collaborating team.
- 1029 ○ **Hypotheses/Objectives:** State the hypotheses or research/evaluation
1030 questions and overall objective(s) to be reached.
 - 1031 ○ **Specific Aims:** Concisely explain the project’s specific aims to include
1032 expected timeframe of each aim. If this proposal/application is part of a
1033 larger study, present only tasks this award would fund.
 - 1034 ○ **Project Design:** Describe and define the research design, methods, and
1035 analyses/evaluations in sufficient detail for analysis.
 - 1036 — Clearly support the choice of study variables/metrics and explain the
1037 basis for the research questions and/or study hypotheses. Establish the
1038 relevance of the study and explain the applicability of the proposed
1039 findings.
 - 1040 — Provide a detailed protocol, including but not limited to, proposed
1041 methodologies, research/test plan(s) and criteria, intended medical
1042 domain(s) or discipline(s), control groups, and defined statistical
1043 models.
 - 1044 — Define the study variables (independent/dependent) and define how they
1045 will be measured. Include a description of appropriate controls and the
1046 endpoints to be tested. Describe how data will be collected and analyzed in
1047 a manner that is consistent with the study objectives. Describe a plan for
1048 data access and outcome dissemination.
 - 1049 — For development of devices and technologies, discuss the engineering/
1050 technical design that will be used to achieve the project goals,
1051 demonstrating the feasibility of the proposed product development. Discuss
1052 the perceived engineering/design strengths and flaws and recommendations
1053 for overcoming/preventing them.
 - 1054 — Address all potential barriers and provide plans for addressing potential
1055 delays, unexpected events, changes in key personnel, and ongoing
1056 adaptation of the Application. Provide a risk management plan to address
1057 barriers to plans. As relevant, describe plans for addressing potential
1058 issues unique to working within the military health system.
 - 1059 — Document the availability and accessibility of the study materials (including
1060 data) needed as applicable.
 - 1061 ○ **Project Milestones:** Identify timelines for critical events that must be
1062 accomplished in order for the project to be successful in terms of cost,
1063 schedule, and performance. For development of devices and technologies,
1064 discuss the timelines and provide a commercial strategy plan for the
1065 technology being developed.
 - 1066 ○ **Additional Information:** If human subjects are involved in the research,
1067 proposals may be submitted prior to human protocol institutional approvals.

1068 However, protocols with required institutional approvals must be submitted no
1069 later than 60 days after award to demonstrate continued progress and ensure
1070 continuation of payment. The Contracting Officer may make exceptions in
1071 situations where human and/or animal use is not expected to begin until after
1072 the first year of the research project. In such cases, a timeframe for submission
1073 of the appropriate protocols and institutional approvals will be established
1074 prior to award.

1075
1076 ***PIs and collaborating organizations may not use, employ, or subcontract for***
1077 ***the use of any human participants, including the use of human anatomical***
1078 ***substances, human data, and/or human cadavers, or laboratory animals until***
1079 ***applicable regulatory documents are approved by the OHRO and or***
1080 ***USSOCOM VRO to ensure that DoD regulations have been met.***

- 1081
- 1082 – For studies with prospective accrual of human subjects, indicate
1083 quarterly enrollment targets.
 - 1084 – Identify cell line(s) and commercial or organizational source(s) to be
1085 used. If human anatomical substances (including cell lines) will be used,
1086 specify whether or not identifiable information is accessible to the
1087 research team by any means.
 - 1088 – If applicable, indicate time required for submission and/or approval of
1089 documents (e.g., Investigational New Drug and Investigational Device
1090 Exemption) to the U.S. Food and Drug Administration or appropriate
1091 Government agency.
 - 1092 – For studies involving human subjects, allow at least 2 to 3 months for
1093 regulatory review and approval by the USAMRDC OHRO; this does not
1094 include the additional time required for local Institutional Review Board
1095 (IRB)/Ethics Committee (EC) review and approval.
- 1096 Refer to the General Submission Instructions, Appendix 5, for additional
1097 regulatory information.

1098

1099 □ **Attachment 2: Supporting Documentation: Start each document on a new**
1100 **page. Combine and upload as a single file named “Support.pdf.”** If
1101 documents are scanned to pdf, the lowest resolution (100 to 150 dpi) should be
1102 used. The Supporting Documentation attachment should not include additional
1103 information such as figures, tables, graphs, photographs, diagrams, chemical
1104 structures, or drawings.

1105

1106 ***There are no page limits for any of these components unless otherwise noted.***
1107 ***Include only those components described below; items not requested will be***
1108 ***removed and may result in administrative withdrawal of the***
1109 ***proposal/application.***

1110

- 1111 ○ **Bibliography and References Cited:** List the references in the order they
 1112 appear in the Project Narrative. Use a standard reference format that includes
 1113 the full citation (i.e., author[s], year published, title of reference, source of
 1114 reference, volume, chapter, page numbers, and publisher, as appropriate. Do
 1115 not send or attach copies of articles in print. There is no form for this
 1116 information. The attachments should be in PDF in accordance with the
 1117 formatting guidelines specified for full proposal/application preparation.
 1118
- 1119 ○ **List of Abbreviations, Acronyms, and Symbols:** Provide a list of
 1120 abbreviations, acronyms, and symbols.
- 1121 ○ **Facilities, Existing Equipment, and Other Resources:** Describe the
 1122 facilities and equipment available for performance of the proposed project
 1123 and any additional facilities or equipment proposed for acquisition at no cost
 1124 to the award. Indicate whether or not Government-furnished facilities or
 1125 equipment are proposed for use. If so, reference should be made to the
 1126 original or present Government award under which the facilities or equipment
 1127 items are now accountable. There is no form for this information.
 1128
- 1129 **Note: For researchers who will require access to the Defense Healthcare**
 1130 **Management Systems Modernization (DHMSM) Cerner Electronic**
 1131 **Health Record (EHR) solution for testing related to research workflows**
 1132 **and/or interfaces:** Access will be provided through a research environment
 1133 within the Program Executive Office (PEO) Defense Healthcare
 1134 Management Systems (DHMS) Testing Infrastructure at Allegheny Ballistics
 1135 Laboratory (ABL). Users will follow the PEO DHMS Testing Infrastructure
 1136 Onboarding Guide to access the environment. Direct support from the
 1137 DHMSM vendor will not be provided through the DHMSM contract. No one
 1138 is authorized to engage the DHMSM contractor for this purpose. Research
 1139 must remain in these stated bounds.
- 1140 ○ **Publications and/or Patent Abstracts (five-document limit):** Include
 1141 relevant publication URLs and/or patent abstracts. If publications are not
 1142 publicly available, then a copy/copies of the published manuscript(s) must
 1143 be attached.
- 1144 ○ **Letters of Organizational Support:** Provide a letter (or letters, if applicable),
 1145 signed by the Department Chair or appropriate organization official,
 1146 confirming the laboratory space, equipment, and other resources available for
 1147 the project. A letter for each organization involved in the project should be
 1148 provided.
- 1149 ○ **Letters of Collaboration:** Provide a signed letter from each collaborating
 1150 individual or organization that will demonstrate that the PI has the support or
 1151 resources necessary for the proposed work. If an investigator at an
 1152 intramural organization is named as a collaborator on an application
 1153 submitted through an extramural organization, the application must include a

- 1154 letter from the collaborator’s Commander or Commanding Officer at the
 1155 intramural organization that authorizes the collaborator’s involvement.
 1156 Refer to the General Submission Instructions, Section III.A.8., Research &
 1157 Related Budget, for additional information.
- 1158 ○ **Joint Sponsorship (if applicable):** Describe present or prospective joint
 1159 sponsorship of any portion of the program outlined in the proposal/
 1160 application. In the absence of agreements among sponsors for joint support, the
 1161 proposal/application should be structured so that the research can be carried
 1162 out without the resources of any other sponsor. If, however, it is desirable to
 1163 request partial support from another agency, the proposed plan should be stated
 1164 and the reasons documented. If the plan cannot be formulated at the time the
 1165 proposal/application is submitted, information should be sent later as an
 1166 addendum to the proposal/application. Prior approval from both agencies must
 1167 be secured for research to be undertaken under joint sponsorship. Provide
 1168 letters of support related to recruitment, subject access, and data access plans.
 1169
 - 1170 ○ **Intellectual Property (if applicable):** Refer to the General Submission
 1171 Instructions, Appendix 3, for additional information. Provide the following:
 - 1172 – Should the Applicant intend to use, in the performance of this program,
 1173 pre-existing, legally protected and perfected intangible property and for
 1174 which no Federal funds had been used in the development of said property,
 1175 the Applicant must:
 - 1176 1. Clearly identify all such property;
 - 1177 2. Identify the cost to the Federal government for use or license of such
 1178 property if applicable; or
 - 1179 3. Provide a statement that no property meeting this definition will be
 1180 used on this project.
 - 1181
 - 1182 - Intellectual and Material Property Plan: If applicable, provide a plan for
 1183 resolving intellectual and material property issues among participating
 1184 organizations.
 1185
 - 1186 □ **Attachment 3: Technical Abstract (one-page limit): Upload as**
 1187 **“TechAbs.pdf.”**
 1188
 1189 The technical abstract is used by all reviewers. Abstracts of all funded research
 1190 projects will be posted publicly. ***Do not include proprietary or confidential***
 1191 ***information.*** Use only characters available on a standard QWERTY keyboard.
 1192 Spell out all Greek letters, other non-English letters, and symbols. Graphics are
 1193 not allowed. Use the outline below.
 1194
 - 1195 ○ **Background:** Provide a brief statement of the ideas and theoretical
 1196 reasoning behind the proposed work. ○ **Objective/Hypothesis:** State the
 1197 objective/hypothesis to be tested. Provide evidence or rationale that supports the

- 1198 objective/hypothesis. o **Specific Aims/Milestones:** State concisely the specific
1199 aims/milestones of the project.
- 1200 o **Project Design:** Briefly describe the project design. o **Impact:** Provide a
1201 brief statement explaining the potential impact of the proposed work to advancing
1202 the standard of care for injured Service members and/or the general public. o
1203 **Relevance:** Provide a brief statement explaining the potential relevance of the
1204 proposed work to the specific topic area being addressed and its impact on health
1205 outcomes.
- 1206
- 1207 • **Attachment 4: Lay Abstract (one-page limit): Upload as “LayAbs.pdf.”**
1208 The lay abstract is used by all reviewers. **Do not include proprietary or**
1209 **confidential information.** Use only characters available on a standard
1210 QWERTY keyboard. Spell out all Greek letters, other non-English letters, and
1211 symbols. Graphics are not allowed.
1212
- 1213 Lay abstracts should be written using the following outline. Do not duplicate the
1214 technical abstract.
- 1215 o Describe the objectives and rationale for the proposal/application in a manner
1216 that will be readily understood by readers without a background in science or
1217 medicine.
- 1218 o Describe the ultimate applicability and potential impact of the research.
- 1219 — What types of patients will it help, and how will it help them? Include
1220 the current available statistics to the related injury/condition.
- 1221 — What are the potential clinical Applications, benefits, and risks?
- 1222 — What is the projected timeline it may take to achieve the expected patient-
1223 related outcome?
- 1224 o Briefly describe how the proposed project will benefit Service
1225 members, Veterans, and/or family members.
1226
- 1227 • **Attachment 5: Statement of Work (SOW) (two-page limit): Upload as**
1228 **“SOW.pdf.”** The suggested SOW format and examples specific to different
1229 types of research projects are available on the eBRAP “Funding Opportunities
1230 & Forms” web page (<https://ebrap.org/eBRAP/public/Program.htm>). The SOW
1231 outlines and establishes the PI’s and an organization’s performance expectations
1232 for the work to be funded under this award. The SOW in an assistance
1233 agreement award establishes general objectives. The SOW in a contract sets
1234 rather specific goals and conditions for each year of the contracted project; the
1235 PI and contractor are expected to meet the provisions and milestones of the SOW.
1236 The SOW for all award types will be incorporated into the award document and,
1237 as such, is subject to release under the Freedom of Information Act.
1238 A series of relatively short statements should be included that comprise the
1239 approach to each of the major goals or objectives of the proposed research. The

1240 statements should outline the specific tasks, systems, and materials that are
1241 reasonable estimates for testing the proposed hypotheses of the study. An outline
1242 should be included that shows the work statements to be accomplished in each
1243 year of the award. If this proposal/application is part of a larger study, present
1244 only tasks that this award would fund. Allow at least 2 to 3 months for the
1245 USAMRDC OHRO’s regulatory review and approval processes for studies
1246 involving human subjects. Allow at least 1 to 2 months for the USSOCOM
1247 VRO regulatory review and approval processes for studies involving animals.
1248

1249 • **Attachment 6: Outcomes and Impact Statement (one-page limit): Upload as**
1250 **“Impact.pdf.”** Explain in detail why the proposed research project is important,
1251 as follows:

1252 ○ **Short-Term Impact:** Describe the anticipated outcome(s), results, theoretical
1253 framework, design and or plan that will be directly attributed to the results of
1254 the proposed research.

1255 ○ **Long-Term Impact:** Describe the anticipated long-term clinical/patient
1256 gains or commercial end product from the proposed project. What is the
1257 indication and will the project lead toward transforming the standard of
1258 care? Are there non-trauma-related indications that would expand the
1259 market for the proposed product?
1260

1261 ○ **Military Relevance:** Clearly articulate how the proposed project or product
1262 meets the needs of military medical providers and injured Service
1263 members.

1264 ○ **Public Purpose:** If appropriate, provide a concise, detailed description on
1265 how this project will benefit the general public.
1266

1267 • **Attachment 7: Innovation Statement (two-page limit): Upload as**
1268 **“Innovation.pdf.”** Describe how the proposed project is innovative. Research
1269 deemed innovative may introduce a new paradigm, challenge current paradigms,
1270 look at existing problems from new perspectives, or exhibit other creative
1271 qualities. Investigating the next logical step or incremental advancement on
1272 published data is not considered innovative. This may include a proposed
1273 conceptual framework, design, and/or plan of key components and how they
1274 integrate/communicate with each other. Identify which potential components will
1275 be open source/open architecture vs. proprietary.
1276

1277 • **Attachment 8: Data and Research Resource-Sharing Plan (one-page limit):**
1278 **Upload as “Sharing.pdf.”** Describe how unique and/or final research data will
1279 be shared with the research community, along with any resulting research
1280 resources. This includes cases where pre-existing data or research resources will
1281 be utilized and/or modified during the course of the proposed project. If there
1282 are limitations associated with a pre-existing agreement for the original data or
1283 research resources that preclude subsequent sharing, the Applicant should

1284 explain this in the data- and/or research resource-sharing plan. For projects
1285 involving clinical trials, PIs may be required to register their clinical trials on
1286 Clinicaltrials.gov (<https://clinicaltrials.gov/>). For projects involving TBI, PIs
1287 may be required to report data to the Federal Interagency Traumatic Brain Injury
1288 Research (FITBIR) informatics system (<http://fitbir.nih.gov/>). If the project
1289 includes systems biology- related research, the PI may be required to make the
1290 systems biology data, generated via an award, available to the research
1291 community by depositing research data into the SysBioCube system
1292 (<https://sysbiocube-abcc.ncifcrf.gov>). Refer to the General Submission
1293 Instructions, Appendix 2, for additional information.
1294

- 1295 • **Attachment 9: Conflicts of Interest, if applicable: Upload as “COI.pdf.”**
1296 Provide details with the proposal/application submission of all potential or
1297 actual COIs, along with a plan to resolve them. A contract or assistance
1298 agreement will not be awarded if it is determined by the respective Contracting
1299 Officer that a COI cannot be managed.

1300 Personnel involved in the review process and/or with making funding
1301 recommendations are prohibited from assisting in any proposal/application,
1302 including, but not limited to, concept design, Application development, budget
1303 preparation, and the development of any supporting documentation.

1304 Questions related to this topic should be directed to the eBRAP Help Desk via
1305 email at help@eBRAP.org or 301-682-5507. Refer to the General Submission
1306 Instructions, Appendix 3, for additional information.
1307

- 1308 • **Attachment 10: Data Management (no page limit): Upload as**
1309 **“DataManage.pdf.”** The Data Management attachment should include the
1310 components listed below.

1311 **Data Management:** Describe all methods used for data collection to include the
1312 following:

- 1313 ○ **Identifiers:** Describe the unique identifiers or specific code system to be used
1314 to identify human subjects, if applicable.
- 1315 ○ **Confidentiality:** Explain measures taken to protect the privacy of studies
1316 conducted on human subjects and the ability to maintain confidentiality of
1317 study data. Strategies to protect the privacy and confidentiality of study
1318 records, particularly those containing identifying information, should be
1319 addressed.
 - 1320 — Address who will have access to study records, data, and specimens,
1321 including an acknowledgment that representatives of USSOCOM
1322 are eligible to review study records.
 - 1323 — Address requirements for reporting sensitive information to state or local
1324 authorities.

- 1325
- 1326
- 1327
- 1328
- **Disposition of data:** Describe where data (both electronic and hard copy) will be stored, who will keep the data, how the data will be stored, and the length of time data will be stored. For FDA-regulated studies, compliance with 21 CFR 11 is required.

 - **Sharing study results:** In cases where the human subject could possibly benefit medically or otherwise from the information, explain whether or not the results of screening and/or study participation will be shared with human subjects or their primary care provider, to include results from any screening or diagnostic tests performed as part of the study.
- **Attachment 11: Post-Award Project Transition Plan (three-page limit). Upload as “Transition.pdf.”** Provide information on the methods and strategies proposed to move the project or knowledge outcomes to the next project phase of studies, commercialization, and/or delivery to the civilian or military market after successful completion of the award. The transition plan should include the components listed below.
 - a. The planned indication for the product label, if appropriate, and an outline of the development plan required to support that indication.
 - b. The anticipated regulatory strategy (e.g., additional nonclinical or clinical studies anticipated/required, FDA or regulatory authority meetings desired, industry partnerships) for movement of the research into later phases of development and to support a potential marketing Application [e.g., New Drug Application, Biologics License Application, Premarket Approval Application, 510(k)].
 - c. Details of the funding strategy that will be used to bring the outcomes to the next level of development and/or commercialization (e.g., specific potential industry partners, specific funding opportunities to be applied for).
 - d. For knowledge products, a description of how the knowledge will be further developed, disseminated, and incorporated into clinical care.
 - e. A description of collaborations and other resources that will be used to provide continuity of development.
 - f. A brief schedule and milestones for bringing the outcome(s) to the next phase of studies, commercialization, and/or delivery to the military or civilian market, including when it can be anticipated to be transitioned to an industry partner or approved by the FDA, if applicable.
 - g. A risk analysis for cost, schedule, manufacturability, and sustainability.
 - **Attachment 12: Collaborating DoD Military Facility Budget Form(s), if applicable: Upload as “MFBudget.pdf.”** If a Military Facility will be a collaborator in performance of the project complete the Collaborating DoD Military Facility Budget Form (available for download on eBRAP “Funding

1367 Opportunities and Forms” web page), including a budget justification for each
1368 year. If more than one Military Facility is proposed, submit a separate budget
1369 form for each site. Refer to the General Submission Instructions, Section II.D.5.,
1370 Research & Related Budget, for detailed information.
1371

1372 □ **Extramural Applications**

1373 To evaluate compliance with Title IX of the Education Amendments of 1972 (20 USC
1374 A§1681 et seq.), the DoD is collecting certain demographic and career information to be
1375 able to assess the success rates of women who are proposed for key roles in applications in
1376 science, technology, engineering, or mathematics (STEM) disciplines. To enable this
1377 assessment, each application must include the following forms completed as indicated.
1378

1379 **Research & Related Personal Data:** For extramural submissions (via Grants.gov), refer to
1380 the General Submission Instructions, Section III.A.3, and for intramural submissions (via
1381 eBRAP), refer to the General Submission Instructions, Section IV.A.2, for detailed
1382 information.
1383

1384 **Research & Related Senior/Key Person Profile (Expanded):** Refer to the General
1385 Submission Instructions, Section III for detailed information.
1386

1387 • **PI Biographical Sketch (five-page limit):** Upload as “Biosketch_LastName.pdf.” □

1388 **PI Previous/Current/Pending Support (three-page limit page limit):** Upload
1389 as “Support_LastName.pdf.”

1390 • **Key Personnel Biographical Sketches (five-page limit each):** Upload as
1391 “Biosketch_LastName.pdf.”

1392 • **Key Personnel Previous/Current/Pending Support (three -page limit each):** Upload
1393 as “Support_LastName.pdf.”
1394

1395 **Research & Related Budget:** Refer to the General Submission Instructions, Section III for
1396 detailed information.
1397

1398 • **Budget Justification (no page limit):** Upload as “BudgetJustification.pdf.” The budget
1399 justification for the entire period of performance must be uploaded to the Research &
1400 Related Budget after completion of the budget for Period 1.

1401 ○ IAW FAR 35.016(e), “The primary basis for selecting proposals for
1402 acceptance shall be technical, importance to agency programs, and fund
1403 availability. Cost realism and reasonableness shall also be considered to the
1404 extent appropriate”.

1405 ○ For contracts, statutory limits for fees are specified in FAR 15.404-4(c)(4).
1406

1407 ***NOTE: For all Federal agencies or organizations collaborating with Military***
1408 ***Facilities, special restrictions apply to the budget and are described below.***
1409

1410 • **For Federal Agencies:** Proposals from **Federal agencies** must include in their budget
1411 justifications a **Federal Financial Plan**. The Federal Financial Plan must address how
1412 all funds will be obligated before their period for obligation expires, and how funds will
1413 be available to cover research costs over the entire award period. The Federal Financial
1414 Plan must include the funding mechanism(s) that will be used to carry over funds
1415 between fiscal years.

1416 • **For Collaborating DoD Military Facilities:** Proposals from organizations that include
1417 **collaborations with DoD Military Facilities** (military health system facility, research
1418 laboratory, treatment facility, dental treatment facility, or a DoD activity embedded with
1419 a civilian medical center) must submit Collaborating DoD Military Facility Budget
1420 Form(s) as instructed in Attachment 12.
1421

1422 **Project/Performance Site Location(s) Form:** Refer to the General Submission Instructions,
1423 Section III. for detailed information.
1424

1425 **R & R Subaward Budget Attachment(s) Form (if applicable):** Refer to the General
1426 Submission Instructions, Section III. for detailed information.
1427

1428 **R&R Subaward Budget Attachment(s) Form (if applicable):** Refer to the General
1429 Application Instructions, Section III. for detailed information.

1430 **Collaborating with DoD Military Facilities (if applicable):** Refer to the General
1431 Application Instructions, Section III. for detailed information.

1432 **II.D.3. Unique Entity Identifier (UEI) and System for Award Management (SAM)** 1433

1434 All organizations applying online through Grants.gov must register with the System for Award
1435 Management (SAM) and will receive a unique entity identifier (UEI) number. Failure to register
1436 with SAM will prevent your organization from applying through Grants.gov.

1437 Applicant organizations and all subrecipient organizations must have an active registration in the
1438 System for Award Management (SAM) number to submit proposals to Grants.gov. The
1439 applicant organization must also be registered in the Entity Management functional area of the
1440 SAM with an “Active” status to submit proposals through the Grants.gov portal. Verify the
1441 status of the applicant’s organization’s Entity registration in SAM well in advance of the
1442 proposal/application submission deadline. Allow several weeks to complete the entire SAM
1443 registration process. If an applicant has not fully complied with the requirements at the time the
1444 Federal awarding agency is ready to make a Federal award, the Federal awarding agency may
1445 determine that the applicant is not qualified to receive a Federal award and use that
1446 determination as a basis for making a Federal award to another applicant. Refer to the General
1447 Submission Instructions, Section III, for further information regarding Grants.gov requirements.

1448 Organizations must have an active System for Award Management (SAM) registration, and
1449 Grants.gov account to apply for contracts. If individual applicants are eligible to apply for this
1450 funding opportunity, then you may begin with step 3, Create a Grants.gov Account, listed below.

1451 Creating a Grants.gov account can be completed online in minutes, but SAM registrations may
1452 take additional time. Therefore, an organization's registration should be done in sufficient time to
1453 ensure it does not impact the entity's ability to meet required application submission deadlines.

1454 Complete organization instructions can be found on Grants.gov here:
1455 <https://www.grants.gov/web/grants/applicants/organization-registration.html>

1456 1) *Register with SAM* for all awards: SAM registration must be renewed annually. For more
1457 detailed instructions for registering with SAM, refer to:
1458 [https://www.grants.gov/web/grants/applicants/organization-registration/step-2-register-with-](https://www.grants.gov/web/grants/applicants/organization-registration/step-2-register-with-sam.html)
1459 [sam.html](https://www.grants.gov/web/grants/applicants/organization-registration/step-2-register-with-sam.html)

1460 2) *Create a Grants.gov Account*: The next step is to register an account with Grants.gov.
1461 Follow the on-screen instructions or refer to the detailed instructions here:
1462 <https://www.grants.gov/web/grants/applicants/registration.html>

1463 3) *Add a Profile to a Grants.gov Account*: A profile in Grants.gov corresponds to a single
1464 applicant organization the user represents (i.e., an applicant) or an individual applicant. If you
1465 work for or consult with multiple organizations and have a profile for each, you may log in to
1466 one Grants.gov account to access all of your grant applications. To add an organizational
1467 profile to your Grants.gov account, enter the UEI Number for the organization in the UEI field
1468 while adding a profile. For more detailed instructions about creating a profile on Grants.gov,
1469 refer to: <https://www.grants.gov/web/grants/applicants/registration/add-profile.html>

1470 4) *EBiz POC Authorized Profile Roles*: After you register with Grants.gov and create an
1471 Organization Applicant Profile, the organization applicant's request for Grants.gov roles and
1472 access is sent to the EBiz POC. The EBiz POC will then log in to Grants.gov and authorize the
1473 appropriate roles, which may include the AOR role, thereby giving you permission to complete
1474 and submit applications on behalf of the organization. You will be able to submit your
1475 application online any time after you have been assigned the AOR role. For more detailed
1476 instructions about creating a profile on Grants.gov, refer to:
1477 <https://www.grants.gov/web/grants/applicants/registration/authorize-roles.html>

1478 5) *Track Role Status*: To track your role request, refer to:
1479 <https://www.grants.gov/web/grants/applicants/registration/track-role-status.html>

1480 b. *Electronic Signature*: When applications are submitted through Grants.gov, the name of the
1481 organization applicant with the AOR role that submitted the application is inserted into the
1482 signature line of the application, serving as the electronic signature. The EBiz POC must
1483 authorize people who are able to make legally binding commitments on behalf of the
1484 organization as a user with the AOR role; this step is often missed and it is crucial for valid and
1485 timely submissions.

1486 For additional training resources, including video tutorials, refer to:
1487 <https://www.grants.gov/web/grants/applicants/applicant-training.html>

1488 *Applicant Support:* If you are experiencing difficulties with your submission, it is best to call the
1489 Grants.gov Support Center and get a ticket number. The Support Center ticket number will assist
1490 the USSOCOM with tracking your issue and understanding background information on the
1491 issue. Grants.gov provides applicants 24/7 support via the toll-free number 1-800-518-4726 and
1492 email at support@grants.gov. For questions related to the specific grant opportunity, contact the
1493 number listed in the application package of the grant you are applying for.

1494 In March 2018, the General Services Administration (GSA) implemented fraud prevention
1495 security measures in the System for Award Management (SAM) which required every new
1496 contractor registrant to provide a written (hard copy), notarized letter confirming the entity's
1497 Administrator that is authorized to register the entity in the SAM database, or to make changes to
1498 its registration. Effective 29 April 2018, the notarized letter process is now mandatory on all
1499 CURRENT registrants at SAM who have a requirement to update data on their SAM record.
1500 The notarized letter is mandatory and is required before the GSA Federal Service
1501 Desk (FSD) will activate the entity's registration. The Office of the Secretary of Defense and GSA
1502 realizes the length of time needed to transmit, receive, process, and approve the notarized letters
1503 presents a significant impact on the ability of the contracting activity to make timely awards, but
1504 in order to mitigate the concern of fraud, these steps and the time needed for processing, is
1505 unavoidable. ***Notarized letters are required for all new and existing SAM registered Entities.***
1506 The notarized letters must be postal service mailed (not emailed or faxed) to the "Federal Service
1507 Desk" and must contain the information outlined in the SAM posted FAQ at:
1508 ([https://www.gsa.gov/about-us/organization/federal-acquisition-service/office-of-](https://www.gsa.gov/about-us/organization/federal-acquisition-service/office-of-systemsmanagement/integrated-award-environment-iae/sam-update)
1509 [systemsmanagement/integrated-award-environment-iae/sam-update](https://www.gsa.gov/about-us/organization/federal-acquisition-service/office-of-systemsmanagement/integrated-award-environment-iae/sam-update)). Instructions for domestic
1510 entities and instructions for international entities with embedded templates for use are also
1511 provided within the SAM Update notice with frequently asked questions at
1512 [https://www.gsa.gov/aboutus/organization/federal-acquisition-service/office-of-systems-](https://www.gsa.gov/aboutus/organization/federal-acquisition-service/office-of-systemsmanagement/integrated-awardenvironment-iae/sam-update)
1513 [management/integrated-awardenvironment-iae/sam-update](https://www.gsa.gov/aboutus/organization/federal-acquisition-service/office-of-systemsmanagement/integrated-awardenvironment-iae/sam-update).
1514

1515 **II.D.4. Submission Dates and Times**

1516
1517 This is a continuously open announcement through 31 July 2028; therefore, reviews occur
1518 throughout the year. Pre-proposals may be submitted at any time throughout the 5-year period
1519 noted above. An invited full proposal/application should be submitted within
1520 **60 days** of the PI's receipt of an invitation to submit. No pre-proposal/pre-application or full
1521 proposal/application may be submitted under this BAA after 31 July 2028, 11:59 p.m. Eastern
1522 Time. If an invited proposal/application is not submitted by 31 July 2028, 11:59 p.m. Eastern
1523 Time, the applicant must wait for the next available opportunity for submission, i.e., the release
1524 of the FY28 BAA (to be posted to Grants.gov 31 July 2028). No proposal/application received
1525 under this BAA will be considered for funding after 24 months from the date of submission.

1526 **II.D.5. Funding Restrictions**

1527
1528 The following limits on the duration and cost of research projects apply:
1529
1530 Proposed projects longer than five (5) years will not be considered.

1531
1532 Most projects are anticipated to have a total cost at or below \$1,500,000 (including indirect
1533 costs). Projects that have a total cost higher than \$1,500,000 (including Indirect costs) with
1534 outstanding scientific merit that meet a critical need may be accepted; however the total cost of
1535 these projects are not to exceed \$5,000,000.00 (including Indirect costs).
1536 No budget will be approved by the Government exceeding \$5,000,000.00 (including indirect
1537 costs).
1538
1539 A budget should be commensurate with the nature and complexity of the proposed research.
1540 Researchers should submit budgets that include the entire period of performance of the research
1541 project. Budgets should include all direct and indirect costs, based on supportable, verifiable
1542 estimates. The budget for the full proposal/application should not differ significantly from the
1543 pre-proposal/pre-application budget summary form provided in the pre-proposal/pre-application
1544 submission.
1545
1546 Offerors or Applicants seeking additional or continuation funding must submit new pre-
1547 proposals and be invited to submit full proposals.
1548 See the General Submission Instructions, Section III, for additional information regarding the
1549 research and related budget.
1550
1551 All direct and indirect costs of any subaward, contract, or subcontract must be included in the
1552 costs of the primary award.
1553
1554 The applicant may request the entire maximum funding amount for a project that may have a
1555 period of performance less than the maximum five years.
1556
1557 For this award mechanism, direct costs may be requested for (not all inclusive):
1558
1559 • Salary
1560 • Research – related subject costs
1561 • Research supplies
1562 • Support for multidisciplinary collaborations, including travel
1563 • Travel costs
1564 • Equipment

1565 For extramural awards with an intragovernmental component, direct transfer of funds from an
1566 extramural award recipient to a DoD or other Federal agency is not allowed. Funding to
1567 intramural DoD and other Federal agencies will be managed through a direct fund transfer.
1568 Intramural applicants are responsible for coordinating through their agency’s procedures the use
1569 of contractual or assistance funding awards or other appropriate agreements to support
1570 extramural collaborators.
1571
1572 Refer to the General Submission Instructions, Section III. for budget regulations and instructions
1573 for the Research & Related Budget. ***For Federal agencies or organizations collaborating with***

1574 *Federal agencies, budget restrictions apply as are noted in the General Submission*
1575 *Instructions, Section III.*

1576
1577 For additional information refer to [Section II.F.1, Federal Award Notices](#).
1578 Funds to be obligated on any award resulting from this BAA will be available for use for a
1579 limited time period based on the fiscal year of the funds. Awards will identify expiration of the
1580 funds.

1581
1582 Refer to the General Submission Instructions, “Research & Related Budget,” for discussion of
1583 allowable costs, including pre-award costs and collaborations with Military Facilities.

1584

1585 **II.D.6. Other Submission Requirements**

1586
1587 Refer to the General Submission Instructions, Appendix 4, for detailed formatting guidelines on
1588 submission.

1589

1590 **II.E. Proposal/Application Review Information**

1591

1592 **II.E.1. Criteria**

1593

1594 **II.E.1.a. Peer Review**

1595

1596 To determine technical merit, all proposals will be evaluated according to the following scored
1597 criteria, which are listed in descending order of importance:

1598

1599 • **Research Objectives:** The degree to which the stated objectives are clear, valid, and logical.
1600 For development of devices and technologies, the degree to which the performance
1601 objectives are plausible; the proposed effort demonstrates familiarity with the historical
1602 background of the problem and previous/current solutions; and the awareness of similar
1603 projects previously undertaken and related activities. The extent that the proposed research
1604 projects demonstrate an innovative approach and relate to the Research Areas of Interest
1605 identified in [Section II.A](#).

1606

1607 • **Scientific Design Excellence:** The degree to which proposed plans, methods, techniques and
1608 procedures are feasible, clear, valid, adequately referenced, and state-of-the-art. The merit of
1609 the statistical features of the study. The extent to which literature searches were used to
1610 document the strengths of the proposed project. For development of devices and
1611 technologies, the feasibility of the proposed prototype/technology development plan; how
1612 well the engineering/technical design is likely to achieve the goals indicated; adequacy of the
1613 engineering/design solutions; and how well the perceived engineering/design strengths and
1614 flaws are addressed.

1615

- 1616 • **Impact/Outcomes:** The potential impact of the research in the field, the significance of this
1617 impact, and when it can be anticipated. For development of devices and technologies, the
1618 potential translation, implementation, and/or commercial use for the prototype/technology
1619 being developed.
- 1620
- 1621 • **Budget:** The degree to which the budget reflects the actual needs of the proposed work, is
1622 thoroughly detailed and fully justified so that the government can evaluate and determine the
1623 cost commensurate with the complexity and nature of the research proposed.
- 1624
- 1625 • **PI and Key Personnel Qualifications:** The qualifications, capabilities, and experience of
1626 the proposed PI and other key personnel to demonstrate that the proposed staff has the
1627 knowledge, technical expertise, and management skills to achieve the proposed objectives as
1628 well as the time available for the percentage of efforts indicated for the project.
- 1629
- 1630 • **Facilities:** The proposed facilities and equipment, or unique combinations of these, to
1631 demonstrate that the organization has the necessary facilities required for the accomplishing
1632 the proposed objectives.
- 1633

1634 **II.E.1.b. Programmatic Review**

1635 To make funding recommendations and select the proposal(s)/application(s) that, individually or
1636 collectively, will best achieve the program objectives, the following criteria are used by
1637 programmatic reviewers:

- 1638 • Scientific peer review results
- 1639 • SOF Relevance (mission, health, medicine, and beneficiaries)
- 1640 • Portfolio balance
- 1641 • Programmatic priorities
- 1642

1643 **II.E.2. Proposal/Application Review and Selection Process**

1644

1645 All invited proposals are evaluated by USSOCOM scientists, other federal agency
1646 representatives, outside scientists with diverse expertise, clinicians, consumers, or combinations
1647 thereof, using a two-tier review process. The first tier is **peer review** of proposals against
1648 established criteria for determining technical merit. Each proposal/application is evaluated for
1649 its own merit, independent of other proposals. The second tier is a **programmatic review** that
1650 makes recommendations for funding, based on established criteria for determining relevance to
1651 the mission of the USSOCOM and its programs. Programmatic review is a comparison-based
1652 process in which proposals with scientific and technical merit compete in a common pool. *The*
1653 *highest-scoring proposals from the first tier of review are not automatically recommended for*
1654 *funding. Funding recommendations depend on various factors as described in [Section II.E.](#)*
1655 *[Programmatic Review](#).*

1656

1657 After the two-tier evaluation, proposals recommended for funding may be prioritized. A
1658 prioritized listing of alternates (deferred decisions) may also be prepared, when warranted.
1659 Subsequent awards depend upon the availability of funds and fulfillment of requirements and
1660 priorities determined to exist at the time of award. In some cases, funding priorities may change
1661 as certain scientific tasks are addressed and new mission assignments arise.

1662
1663 If selected for funding, the award may also be dependent upon the organization providing
1664 adequate additional regulatory documentation, such as human subjects/anatomical
1665 substances/use of cadavers' protocols and approvals, animal subjects' protocols and approvals,
1666 and environmental information. The award may also be dependent upon additional supporting
1667 administrative and budgetary information.

1668
1669 IAW FAR 35.016(e), "The primary basis for selecting proposals for acceptance shall be
1670 technical, importance to agency programs, and fund availability. Cost realism and
1671 reasonableness shall also be considered to the extent appropriate".

1672
1673 All USSOCOM review processes are conducted confidentially to maintain the integrity of the
1674 merit-based selection process. Panel members sign a statement that proposal/application and
1675 evaluation information will not be disclosed outside the panel. Violations of confidentiality can
1676 result in the dissolving of a panel(s) and other corrective actions. In addition, personnel at the
1677 Applicant or collaborating organizations are prohibited from contacting persons involved in the
1678 review and approval process to gain protected evaluation information or to influence the
1679 evaluation process. Violations of these prohibitions will result in the administrative withdrawal
1680 of the organization's proposal/application. Violations by panel members or applicants that
1681 compromise the confidentiality of the review and approval process may also result in suspension
1682 or debarment from federal awards. Furthermore, the unauthorized disclosure of confidential
1683 information of one party to another third party is a crime in accordance with 18 USC 1905.

1684

1685 **II.E.3. Integrity and Performance Information**

1686

1687 Prior to making an award where the Federal share is expected to exceed the simplified
1688 acquisition threshold (currently \$250,000) over the period of performance, the Federal awarding
1689 agency is required to review and consider any information about the applicant that is available in
1690 the SAM.gov Responsibility/Qualification (R/Q).

1691 An applicant organization may review R/Q, accessible through SAM, and submit comments to
1692 R/Q on any information about the organization that a Federal awarding agency previously
1693 entered and is currently available in R/Q.

1694 The Federal awarding agency will consider any comments by the applicant, in addition to other
1695 information in the designated integrity and performance system, in making a judgment about the
1696 applicant's integrity, business ethics, and record of performance under Federal awards when
1697 determining an organization's qualification prior to award, according to the qualification
1698 standards of the FAR.

1699 **II.E.4. Anticipated Announcement and Federal Award Dates**

1700
1701 Each PI and organization will receive email notification via eBRAP of the funding
1702 recommendation. Notifications should be sent within 180 days of submission. Each PI will
1703 receive a peer review summary statement on the strengths and weaknesses of the
1704 proposal/application.

1706 **II.F. Federal Award Administration Information**

1707 **II.F.1. Federal Award Notices**

1708
1709 The PI should receive disposition regarding the full proposal/application via an email from
1710 eBRAP within 180 days of submission. **A recommended for funding notification is NOT an**
1711 **authorization to begin performance nor a guarantee of an award.**

1712 The awarding agency will be the USAMRAA. The USAMRAA Contracting Officers are the
1713 only individuals authorized to obligate funds and bind the Federal Government.

1714 Authorization to begin performance will be received via an award document (contract,) signed
1715 by the USAMRAA Contracting Officer. No commitment on the part of the Government should
1716 be inferred from discussions with any other individual.

1717 Awards will be made at any time throughout the year and are contingent upon availability of
1718 funding, adequacy of supporting documentation submitted, fulfillment of requirements, and
1719 completion of successful negotiations. No proposal/application submitted under this BAA will
1720 be considered for funding after 24 months from the date of submission to Grants.gov.

1721 Refer to the General Submission Instructions, Appendix 2, Section D, Award Notices, for
1722 additional information. Refer to the full text of the USAMRAA General Research Terms and
1723 Conditions for Institutions of Higher Education, Hospitals, and Non-Profit Organizations and the
1724 USAMRAA General Research Terms and Conditions for For-Profit Organizations available at
1725 <http://www.usamraa.army.mil/Pages/Resources.aspx> for further information.

1726 **II.F.1.a. PI Changes and Award Transfers**

1727 Refer to the General Submission Instructions, Appendix 2 for general information on changes to
1728 PIs and organizational transfers.

1729 Should the PI of a funded project leave the award organization, both the PI and organization
1730 must contact the USAMRAA Contracting Officer as soon as possible to discuss options for
1731 continued support of the research project. Every effort should be made to notify the USAMRAA
1732 prior to the PI leaving the organization. An organizational transfer of an Assistance Agreement
1733 award will not be allowed in the last year of the (original) period of performance or any
1734 extension thereof. An organizational transfer of a Contract award will not be allowed.

1735 **II.F.2. Administrative and National Policy Requirements**

1736

1737 Applicable requirements in the FAR, found in 48 CFR, Chapter 1, DFARS, found in 48 CFR
1738 Chapter 2, and AFARS, found in 48 CFR Chapter 51, apply to contracts resulting from this
1739 BAA.

1740 Refer to the General Submission Instructions, Appendix 2, for general information regarding
1741 administrative requirements.

1742 Refer to the General Submission Instructions, Appendix 5, for general information regarding
1743 national policy requirements.

1744 Refer to full text of the [USAMRAA General Research Terms and Conditions with Institutions of](#)
1745 [Higher Education, Hospitals, and Non-Profit Organizations](#): Addendum to the DoD R&D Terms
1746 and Conditions and the [USAMRAA General Research Terms and Conditions with For-Profit](#)
1747 [Organizations](#) for further information.

1748 **II.F.3. Reporting**

1749 Refer to the General Submission Instructions, Appendix 2, Section A, for general information on
1750 reporting requirements. ***If there are technical reporting requirement delinquencies for any***
1751 ***existing USSOCOM-sponsored awards at the applicant organization, no new awards will be***
1752 ***issued to the applicant organization until all delinquent reports have been submitted.***

1753
1754 technical progress reports and quad charts will be required with frequency determined at the
1755 contract level.

1756 • quad charts including:

1757 ○ Objective, measurable, and easily independently verifiable assessment of metrics to
1758 measure progress regarding project cost, schedule, performance, risk, and opportunity.

1759 ○ Risk and opportunity assessment of project cost, schedule, and performance. Risk
1760 assessments will use objective, measurable, and easily independently verifiable metrics;
1761 mitigation plans; triggering event; latest potential successful mitigation date; and impacts
1762 of unmitigated risks. Opportunity assessments will use objective, measurable and easily
1763 independently verifiable metrics; exploitation plans; triggering event; latest potential
1764 successful exploitation; and impact of successful opportunity exploitation.

1765 ○ Integrated project Gantt chart with all progress to date, supported by the cost,
1766 performance, risk, and opportunity assessments.

1767 ○ Budget chart with burn rate, demonstrating funding expended against time, funds
1768 remaining, and planned expense plan through the rest of the project schedule against
1769 planned milestones.

1770 • technical reports including the following:

1771 ○ Full description of architecture and content of new interoperable component, description
1772 of scenarios developed, results and method of pilot study.

- 1773 ○ A report, document, or list of the terminology and respective definitions used for the
1774 variables, metrics, and evaluation criteria and how they were deconstructed. It must
1775 provide the measuring tools and, if needed, how they were used to obtain the
1776 metric/evaluation criteria. Objective measurements are preferred, but subjective
1777 measurements that have rigorous reliability, repeatability, and robustness will be
1778 considered.
- 1779 ○ Explanation, including definitions and descriptions, of TRIAGE determinants of
1780 performance and agility. A report or document with the information and analyzed data of
1781 the actual postulated variables, metrics, and evaluation criteria.
- 1782 ○ Analyzed pilot study data and the specific aims, methodologies, sample and sample size,
1783 inter-rater reliability, assessment criteria, statistical methods, analyzed results,
1784 conclusions, and potential next-step recommendations.
- 1785 ○ Completion of preliminary/pilot empirical evaluation of the developed proof-of-concept;
- 1786 ○ A description of the components of the proof-of-concept that are proprietary and ones
1787 that are open source/open architecture. Explanation of Government rights and/or
1788 proposed pricing structure to the Government (if applicable).
- 1789 ○ Documentation of the translational parameters and the respective definitions (if
1790 applicable).
- 1791 ○ Description of the gaps that were uncovered during this research as it pertains to the
1792 success or improvement measured and an outline of anticipated next steps or
1793 recommendations.

1794

1795 **II.G. Federal Awarding Agency Contacts**

1796 **II.G.1. eBRAP Help Desk**

1797

1798 Questions related to BAA content or submission requirements as well as questions related to the
1799 submission of the pre-proposal/pre-application through eBRAP should be directed to the eBRAP
1800 Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. Eastern Time.
1801 Response times may vary depending upon the volume of inquiries.

1802

1803 Phone: 301-682-5507

1804 Email: help@eBRAP.org

1805 **II.G.2. Grants.gov Contact Center**

1806

1807 Questions related to extramural full proposal/application submission through the Grants.gov
1808 portal should be directed to the Grants.gov Contact Center, which is available 24 hours a day, 7

1809 days a week (closed on U.S. federal holidays). Note that the eBRAP Help Desk is unable to
1810 provide technical assistance with Grants.gov submission.

1811

1812 Phone: 800-518-4726; International 1-606-545-5035

1813 Email: support@grants.gov

1814

1815 ***Sign up on Grants.gov for “send me change notification emails” by following the link on the***
1816 ***Synopsis page for the BAA or by responding to the prompt provided by Grants.gov when first***
1817 ***downloading the submission package. If the submission package is updated or changed, the***
1818 ***original version of the Application package may not be accepted by Grants.gov.***

1819 **II.H. Other Information**

1820 **II.H.1. Administrative Actions**

1821

1822 After agency receipt of pre-proposals or proposals, the following administrative actions may
1823 occur:

1824

1825 **II.H.1.a. Rejection**

1826

1827 The following will result in administrative rejection of the pre-proposal/pre-application:

1828

1829 • Project narrative exceeds page limit.

1830

1831 • Project narrative is missing.

1832

1833 • Budget form contains only zeros.

1834

1835 • Quad Chart is missing.

1836

1837 The following will result in administrative rejection of the proposal/application:

1838

1839 • Submission of an application for which a letter of invitation was not received.

1840

1841 • Project Narrative exceeds page limit.

1842

1843 • Project Narrative is missing.

1844

1845 • Budget is missing.

1846

1847

1848 **II.H.1.b. Modification**

1849

1850 • Pages exceeding the specific limits will be removed prior to review for all documents other
1851 than the pre-proposal narrative and project narrative.

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- Documents not requested will be removed.
- Following proposal/application submission to Grants.gov, the PI will receive an email request from eBRAP to review, modify, and verify the proposal/application submitted to Grants.gov. During this verification period, the PI may upload missing documents (refer to II.H.I.a, rejection), replace files, and re-categorize files. These modifications must be completed by the end of the application verification period; otherwise, the proposal/application will be reviewed as submitted

II.H.1.c. Withdrawal

The following may result in administrative withdrawal of the pre-proposal/pre-application or proposal/application:

- Federal agency personnel involved in the review process and/or with making funding recommendations are named as being involved in the research proposed or found to have assisted in the pre-proposal/pre-application or proposal/application processes, including, but not limited to, concept design, proposal/application development, budget preparation, and the development of any supporting documentation. ***If formal collaboration with Military Facility personnel is planned (i.e., included in the proposal/application in performance of the research), this prohibition is not applicable. However, these Military Facility personnel are prohibited from being involved in the review process and/or with making funding recommendations.***
- Inclusion of URLs, with the exception of links in References Cited and Publication and/or Patent Abstract sections.
- Page size is larger than 8.5 inches x 11.0 inches (approximately 21.59 cm x 27.94 cm).
- Personnel from applicant or collaborating organizations are found to have contacted persons involved in the review process to gain protected evaluation information or to influence the evaluation process.
- Full proposals from extramural organizations, including non-DoD Federal agencies, received through eBRAP may be withdrawn.
- The full proposal/application does not propose the same research project as described in the pre-proposal/pre-application.
- The full proposal/application budget differs significantly from the budget included in the pre-proposal/pre-application.

- 1896 • A proposal submitted by a PI who does not meet the eligibility criteria will be
- 1897 withdrawn.
- 1898

1899 **II.H.1.d. Withhold**

1901 Proposals that appear to involve research misconduct will be administratively withheld from
 1902 further consideration pending organizational investigation. The organization will be required to
 1903 provide the findings of the investigation to the USAMRAA Contracting
 1904 Officer for a determination of the final disposition of the proposal/application.
 1905

1906 **II.H.2. Proposal/Application Submission Checklist**

Grants.gov Submission Package Components	Upload Order	Action	Completed
SF-424 (R&R) Application for Federal Assistance		Complete as instructed.	
Attachments Form	1	Project Narrative: Upload as Attachment 1 with file name "ProjectNarrative.pdf."	
	2	Supporting Documentation: Upload as Attachment 2 with file name "Support.pdf."	
	3	Technical Abstract: Upload as Attachment 3 with file name "TechAbs.pdf."	
	4	Lay Abstract: Upload as Attachment 4 with file name "LayAbs.pdf."	
	5	Statement of Work: Upload as Attachment 5 with file name "SOW.pdf."	
	6	Outcomes and Impact Statement: Upload as Attachment 6 with file name "Impact.pdf."	
	7	Innovation Statement: Upload as Attachment 7 with file name "Innovation.pdf."	
	8	Data and Research Resource-Sharing Plan: Upload as Attachment 8 with the file name "Sharing.pdf."	
	9	Conflicts of Interest: Upload as Attachment 9 with file name "COI.pdf," if applicable.	
	10	Data Management: Upload as Attachment 10 with file name "DataManage.pdf."	
	11	Post-Award Project Transition Plan: Upload as Attachment 11 with file name "Transition.pdf."	
	12	Collaborating DoD Military Facility Budget Form(s): Upload as Attachment 12 with the file name "MFBudget.pdf," if applicable.	
Research & Related Personal Data		Complete as instructed.	

Research & Related Senior/Key Person Profile (Expanded)		Attach PI Biographical Sketch (Biosketch_LastName.pdf) to the appropriate field.	
		Attach PI Previous/Current/Pending Support (Support_LastName.pdf) to the appropriate field.	
		Attach Biographical Sketch (Biosketch_LastName.pdf) for each senior/key person to the appropriate field.	
		Attach Previous/Current/Pending (Support_LastName.pdf) for each senior/key person to the appropriate field.	
Research & Related Budget		Attach Budget Justification (BudgetJustification.pdf) to the appropriate field. Complete form as instructed.	
Project/Performance Site Location(s) Form		Complete form as instructed.	
R&R Subaward Budget Attachment(s) Form (if applicable)		Complete form as instructed.	
Collaborating with DoD Military Facilities		Complete form as instructed.	

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APPENDIX 1: ACRONYM LIST

- BAA Broad Agency Announcement
- CDMRP Congressionally Directed Medical Research Programs
- CFR Code of Federal Regulations
- COI Conflict of Interest
- DHA Defense Health Agency
- DHP Defense Health Program
- DoD Department of Defense
- eBRAP Electronic Biomedical Research Application Portal
- EC Ethics Committee
- ET Eastern Time
- FAD Funding Authorization Document
- FY Fiscal Year
- HRPO Human Research Protection Office
- IRB Institutional Review Board
- LOI Letter of Intent
- M Million
- MIPR Military Interdepartmental Purchase Request
- NPC Non-Profit Corporation
- OASD(HA) Office of the Assistant Secretary of Defense for Health Affairs
- ORCID Open Researcher and Contributor ID, Inc.
- ORP Office of Research Protections
- PFC Prolonged Field Care
- PI Principal Investigator

RAI	Research Area of Interest
R/Q	Sam.Gov Responsibility/Qualification
RDT&E	Research, Development, Test, and Evaluation
SAM	System for Award Management
SCR	Service Contract Reporting
SOF	Special Operations Forces
SOW	Statement of Work
UEI	Unique Entity Identifier
USAMRAA	U.S. Army Medical Research Acquisition Activity
USAMRDC	U.S. Army Medical Research and Development Command
USC	United States Code
USSOCOM	United States Special Operations Command
VRO	Veterinarian Review Office

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