

**Fast Scan Cyclic Voltammetry
System STATEMENT OF
WORK
9/08/2017**

Contract Number:	<i>(completed by the CO at time of award)</i>
Task Order Number:	<i>(completed by the CO at time of award if a TO)</i>
IFCAP Tracking Number:	
Follow-on to Contract and Task Order Number:	NA

1. Contracting Officer's Technical Representative (COTR).

Name:	
Section:	Research and Development/GRECC
Address:	Rm 815, Building 1, VA Puget Sound Healthcare, 1660 S Columbian Way, Seattle, WA 98108
Phone Number:	
E-Mail Address:	

2. Contract Title. Voltammetry System

3. Background. A contract to build two Fast Scan Cyclic Voltammetry Systems for the VA Puget Sound Health Care System – Seattle Division (VAPSHCS – Sea), Research and Development Service [REDACTED]

The work required will include construction of equipment needed to carry out four-channel fast scan cyclic voltammetry (FSCV) measurements from the brains of awake behaving mice. The two voltammetry systems to be constructed will allow for the detection of catecholamine release in behaving rodents; the systems will also have integrated data collection connections to animal behavioral apparatus including audio and visual equipment. The system will include a computer that will collect, digitize and compile the data as well as software that will track, analyze, image and present integrated FSCV and animal behavioral data. This technique permits for the detection of catecholamines on a sub second time-scale which allows for making direct correlations between neurotransmission and behavior in rodents.

4. Scope.

Two four-channel FSCV systems for use in awake, behaving mice are to be constructed in part at the contractor's business location, the various parts will then be integrated with existing VAPSHCS owned animal behavior equipment and installed at Dr [REDACTED]'s Lab at VAPSHCS, Bldg. 11, Rm. 114. These systems will include the following (some parts shared between the two systems):

- 1) Two multi-channel interface boxes (one for each FSCV system) with integrated timing circuit (system that will allow for the interface between the animal (via the behavioral headstage and the implant connectors), the audio and visual behavioral data collection equipment, and the voltammetry equipment (also includes the DC linear power supply with cable).

- a) 4 mouse four-channel behavioral headstages (2 headstages per FSCV system): interface between the FSCV acquisition system and the implant connectors.
- b) 10 1-channel implant connectors (5 per FSCV system): interface between the animal and the behavioral headstage.
- 2) Two audio-visual systems (one for each FSCV system): this is so the activity of the animal can be recorded; these systems will be built to operate with existing VAPSHCS owned Med Associates animal behavioral apparatus.
- 3) Three data acquisition systems that include Fast Scan Cyclic Voltammetry software for experimental control, data collection, behavioral tracking, analysis, imaging and storage: allows for collection of voltammetry data (one for each FSCV system) and for communication between the voltammetry and behavioral equipment (one system shared between the two FSCV systems). These will be built with existing VAPSHCS owned National Instruments: NI PCI-6052E Multifunction I/O /NIDAQ Board and PCI-6711 Analog Output Device /NIDAQ
- 4) Two faraday cabinets (one for each FSCV system): this cabinet will be built to contain all the FSCV voltammetry system and thus shield the electronics from outside electrical noise. The cabinets will also have padding to shield audio noise as well.
- 5) One lesion maker (shared between the two FSCV systems): this will lesion the voltammetry electrode where it will be located in each animal's brain, thus marking the location of the electrode for further use and to confirm that we are in the correct brain region
- 6) These FSCV systems and the software must be compatible with existing FSCV systems built and software created at the University of Washington.

5. Performance Monitoring

The quality of the performance of the contractor will be determined by the Principal Investigator (PI) [REDACTED] who will report her determination to the contractor performance to VA COR after the work has been completed.

6. Security Requirements.

This system will be built at the contractor's workshop. Some installation may be required at the VAPSHCS. The contractor will not require access to the VAPSHCS site nor to a VA system (logical access). No VA sensitive information or PHI will be used or accessed.

7. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI).

NA

8. Other Pertinent Information or Special Considerations.

None

- a. Identification of Possible Follow-on Work.

None

b. Identification of Potential Conflicts of Interest (COI).

None

c. Identification of Non-Disclosure Requirements.

None

d. Packaging, Packing and Shipping Instructions.

The instruments will be delivered, integrated with existing equipment and installed at the US Department of Veterans Affairs Puget Sound Health Care System in the lab of

9. Risk Control

N/A

10. Place of Performance.

To be determined by contractor. And integration with existing VA equipment and installation will be done at VAPSHCS, [REDACTED] Lab, Bldg. 11, Rm. 114, 1660 S Columbian Way, Seattle, WA 98108,

11. Period of Performance.

9/01/2017-10/31/2018

12. National Holidays.

a. Work shall not be performed on the following legal government holidays:


New Year's Day	Jan 1st
Martin Luther King Day	3rd Monday in January
President's Day	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Columbus Day	2nd Monday in October
Veteran Day	November 11th
Thanksgiving	4th Thursday in November
Christmas	December 25th

b. If a holiday falls on Sunday, the following Monday will be observed as the national Holiday. When a holiday falls on a Saturday, the proceeding Friday is observed as the national Holiday. Also, included would be any day specifically declared by the President of the United States as a National Holiday.

13. VA Point of Contact.

The VA point of contact for this requirement is:



VAPSHCS
Research & Development Service
S-182-GRE
1660 S. Columbian Way
Seattle, WA 98108
Phone: 

Privacy Officer Language for Statement of Work (SOW)

☐ Information made available to the contractor or subcontractor by VA for the performance or administration of this contract or information developed by the contractor/subcontractor in performance or administration of the contract shall be used only for those purposes and shall not be used in any other way without the prior written agreement of the VA. This clause expressly limits the contractor/subcontractor's rights to use data as described in Rights in Data- General, FAR 52.227-14(d) (1).

☐ VA information should not be co-mingled, if possible, with any other data on the contractors/subcontractor's information systems or media storage systems in order to ensure VA requirements related to data protection and media sanitization can be met. If co-mingling must be allowed to meet the requirements of the business need, the contractor must ensure that VA's information is returned to the VA or destroyed in accordance with VA's sanitization requirements. VA reserves the right to conduct on-site inspections of contractor and subcontractor IT resources to ensure data security controls, separation of data and job duties, and destruction/media sanitization procedures are in compliance with VA directive requirements.

☐ Prior to termination or completion of this contract, contractor/subcontractor must not destroy information received from VA, or gathered/created by the contractor in the course of performing this contract without prior written approval by the VA. Any data destruction done on behalf of VA by a contractor/subcontractor must be done in accordance with National Archives and Records Administration (NARA) requirements as outlined in VA Directive 6300, Records and Information Management and its Handbook Records Management Procedures, applicable VA Records Control Schedules, and VA Handbook 6500.1, Electronic Media Sanitization. Self-certification by the contractor that the data destruction requirements above have been met must be sent to the VA Contracting Officer within 30 days of termination of the contract.

☐ The contractor/subcontractor must receive, gather, store, back up, maintain, use, disclose and dispose of VA information only in compliance with the terms of the contract and applicable Federal and VA information confidentiality and security laws, regulations and policies. If Federal or VA information confidentiality and security laws, regulations and policies become applicable to the VA information or information systems after execution of the contract, or if NIST issues or updates applicable FIPS or Special Publications (SP) after execution of this contract, the parties agree to negotiate in good

faith to implement the information confidentiality and security laws, regulations and policies in this contract.

☐ The contractor/subcontractor shall not make copies of VA information except as authorized and necessary to perform the terms of the agreement or to preserve electronic information stored on contractor/subcontractor electronic storage media for restoration in case any electronic equipment or data used by the contractor/subcontractor needs to be restored to an operating state. If copies are made for restoration purposes, after the restoration is complete, the copies must be appropriately destroyed.

Records Management Language for Contracts Required

The following standard items relate to records generated in executing the contract and should be included in a typical Electronic Information Systems (EIS) procurement contract:

1. Citations to pertinent laws, codes and regulations such as 44 U.S.C chapters 21, 29, 31 and 33; Freedom of Information Act (5 U.S.C. 552); Privacy Act (5 U.S.C. 552a); 36 CFR Part 1222 and Part 1228.
2. Contractor shall treat all deliverables under the contract as the property of the U.S. Government for which the Government Agency shall have unlimited rights to use, dispose of, or disclose such data contained therein as it determines to be in the public interest.
3. Contractor shall not create or maintain any records that are not specifically tied to or authorized by the contract using Government IT equipment and/or Government records.
4. Contractor shall not retain, use, sell, or disseminate copies of any deliverable that contains information covered by the Privacy Act of 1974 or that which is generally protected by the Freedom of Information Act.
5. Contractor shall not create or maintain any records containing any Government Agency records that are not specifically tied to or authorized by the contract.
6. The Government Agency owns the rights to all data/records produced as part of this contract.
7. The Government Agency owns the rights to all electronic information (electronic data, electronic information systems, electronic databases, etc.) and all supporting documentation created as part of this contract. Contractor must deliver sufficient technical documentation with all data deliverables to permit the agency to use the data.
8. Contractor agrees to comply with Federal and Agency records management policies, including those policies associated with the safeguarding of records covered by the Privacy Act of 1974. These policies include the preservation of all records created or received regardless of format [paper, electronic, etc.] or mode of transmission [e-mail, fax, etc.] or state of completion [draft, final, etc.].

9. No disposition of documents will be allowed without the prior written consent of the Contracting Officer. The Agency and its contractors are responsible for preventing the alienation or unauthorized destruction of records, including all forms of mutilation. Willful and unlawful destruction, damage or alienation of Federal records is subject to the fines and penalties imposed by 18 U.S.C. 2701. Records may not be removed from the legal custody of the Agency or destroyed without regard to the provisions of the agency records schedules.
10. Contractor is required to obtain the Contracting Officer's approval prior to engaging in any contractual relationship (sub-contractor) in support of this contract requiring the disclosure of information, documentary material and/or records generated under, or relating to, this contract. The Contractor (and any sub-contractor) is required to abide by Government and Agency guidance for protecting sensitive and proprietary information.

