

The U.S. Geological Survey (USGS) has a requirement for the implementation of maintenance subscription and services for existing USGS licenses for the geospatial data processing and analysis software from Geosoft, Incorporated (Inc.) The USGS is aware of no other sources that can provide the above. Therefore, it intends to make an award to Geosoft, Inc., unless it is contacted by any vendor who believes they can provide the same service. Vendors are invited to contact the Contracting Officer, Amanda Brown ([akbrown@usgs.gov](mailto:akbrown@usgs.gov)) no later than 11 AM ET, Friday, June 10, 2016 with an affirmative answer.

*The USGS considers employee signatures to be Personal Protected Information, and therefore all employee signatures have been redacted. By posting this document, the Contracting Officer attests all appropriate signatures have been obtain.*

### **SOLE SOURCE JUSTIFICATION STATES THE FOLLOWING:**

The following information is provided to demonstrate the proposed contractor's unique qualification:

#### **1. Contracting Agency and Activity.**

The Department of the Interior, United States Geological Survey (USGS), National Acquisition Branch plans to contract by means other than full and open competition. This document sets forth the justification and approval for use of one of the exceptions to full and open competition allowed under the Competition in Contracting Act (CICA) of 1984.

#### **2. Nature of Action Being Approved.**

This is a follow on contract for the implementation of maintenance subscription and services for existing USGS licenses for the geospatial data processing and analysis software. Geosoft, Incorporated (Inc.) is the proposed awardee.

#### **3. Description of Supplies or Services.**

The USGS employs geoscientists in all regions and disciplines who require access to modern geospatial data processing, analysis, and interpretation software in order to complete mission required hazard assessment, resource evaluation, hydrologic assessment, and other studies for internal mandated USGS projects and external (both National and International) cooperative projects in a timely and effective manner. Under the terms of a previous competitive procurement action, the USGS originally purchased 40 PC licenses for the Oasis/montaj package from Geosoft, Inc. The USGS added additional licenses since the original purchase and has a continuing and growing need for software and services from Geosoft, Inc. In addition to general maintenance and support of the existing software licenses, the USGS requires the option of purchasing training and/or custom software development from Geosoft, Inc. The USGS has need for 3-dimensional modeling of geophysical data in interpretation of geophysical data in Oasis/montaj.

**4. Estimated Dollar Value.** The total contract value is estimated at \$1,000,000.00 for one base year and four (1) year options. The base year award value is estimated at \$200,000.00.

## 5. Statutory Authority.

The proposed action may be awarded without full and open competition under 41 U.S.C. 253(c)(1) as implemented in FAR 6.302-1(a), Only One Responsible Source.

## 6. Rationale Supporting Use of Citation in No. 5.

The Oasis/montaj, Target for ArcGIS, and Geochemistry for Arc/GIS software packages are proprietary products of Geosoft, Inc., and are only available directly from Geosoft, Inc. Geosoft does not have authorized resellers. These software packages have unique capabilities for data linking (point, line, profile, grid, map), data processing (extensive geophysical filtering and imaging tools), data display (full projection capabilities, profile, 2D map, and 3d image display), and data sharing/integration (extensive links to data formats and, in particular, to ESRI software including Arc/GIS). These unique capabilities are important for the continued complete and efficient use of geospatial data collected and used by the USGS for the completion of mandated and cooperative studies. For example, thousands of aerogeophysical magnetic surveys have been collected by the USGS over the past 50 years and new surveys are collected every year. These data have been organized, processed and archived over the last 12 years using the Oasis/montaj software package for numerous projects including the North American Magnetic Map produced in cooperation with the Geological Surveys of Canada and Mexico. Oasis/montaj is the only software package available that allows these data to be directly accessed and linked at the point, line and grid level simultaneously and to be efficiently interpreted in combination with other data sets (geology, geochemistry, etc.) to meet the Government's on-going project and operator minimum needs.

If the Oasis/montaj software were unavailable to the USGS then it would be necessary to develop software to access, process, integrate and interpret USGS geospatial data, in particular geophysical survey data. Developing an alternate software would result in an unacceptable delay in providing software support to high-priority projects like volcano hazards, induced seismicity, interpretation of ecosystem risks due to energy development, and groundwater quality mapping. Further, the cost of developing such software is in excess of any savings hoped to be achieved through competing this maintenance requirement for software licenses already procured at significant expense.

Additionally, it is critically important to maintain continuity of the geophysical and geochemical data formats and processing tools used on all of the national data stored in the Oasis/montaj software suite. The continued use of these tools and data formats ensures that results from previous processing and analyses can be directly compared and merged with new results. Without continuity of data between software package outputs, data may be skewed resulting in erroneous information on which those making judgements base their decisions.

## 7. Other Information.

The USGS has spent several years in development of new software tools and adapted old software tools to run within the Geosoft GX development environment. Geosoft GXs are modules that run within Oasis/montaj for custom processing and visualization of data. Continued

access to the Geosoft software platform is critical to retain use of the new USGS-developed GX based data tools as well as tools that have been and are being developed for others in the Oasis/montaj user community including the Army Corp of Engineers. The USGS has also funded development of custom tools for processing and interpreting data using GX modules. The Oasis/montaj development system has been in critical use by the USGS for over 12 years and it would take at least half that long to fully convert to another system at the cost of many man-years of effort. The Oasis/montaj system itself is the result of at least 30 years' worth of programming work and would be impossible for the USGS to replicate. There is not another software package available to meet the Government's minimum needs.

#### **8. The Efforts to Identify Additional Sources Including the Market Research Conducted.**

There is no other software that meets the Government's minimum needs in a single integrated package. Market research into other software suites has been conducted via interactions of the USGS geophysicists with other geophysicists world-wide at professional conferences. In addition, the USGS geophysicists subscribe to and read a wide variety of geophysical publications and would be aware of competitive software. USGS scientists also attend trade shows such as PDAC held annually in Toronto (Mining Industry support conference).

The only other known source for software that may meet the Government's needs is Intrepid, Inc. (an Australian company). The Intrepid software provides some of the needed functionality, but is a disconnected set of individual software components not integrated into a single system. Intrepid also does not provide the central multi-view (point, line, image) interface or the continuity of data required.

Furthermore, a Sources sought noted was posted on Fedbizops and Fed Connect.net on 3/16/2016 under G16PS00310 for the implementation of a maintenance subscription and services for existing USGS licenses for the geospatial data processing and analysis software. USGS Office of Acquisition and Grants received one Capability Statement after the response due date. The contracting officer sent it for Program office review. The program office concluded that the company did not respond to items that specifically require support for geophysical, geochemical, and borehole data processing. In addition the company did not support geophysical data inversion and modeling capabilities. The company's web site does not list these capabilities and does not have expertise to support the GX modules described in the Sources Sought notice.

#### **9. Future Plans to Permit Competition.**

The Government will continue to search for companies providing similar software and services through professional conferences and tradeshow. In addition, this requirement will be reviewed on a yearly basis to evaluate if there is any new competition in the market. Should competition be identified, the requirement will be competed.

#### **11. Recommendation and Certification from Program Office**

Based on the above, I recommend this acquisition be conducted on the basis of other than full and open competition. I certify that technical data which form a basis for this justification that are the responsibility of technical or requirements personnel are complete and accurate.

Shane Wright, EGIS \_\_\_\_\_ Date: \_\_\_\_\_

Computer Specialist

Signature

Date

**11. Certifications from the Contracting Officer:**

The Contracting Officer has determined that the anticipated cost to the Government will be fair and reasonable based on comparison to the previous purchase of Geosoft, Inc. software.

All of the requirements of the Competition in Contracting Act, (41 U.S.C. 253), as implemented in the Federal and Interior Acquisition Regulations, have been considered in preparing this justification. This justification is accurate and complete to the best of my knowledge and belief.

**12. Approvals**

\_\_\_\_\_  
Contracting Officer, Amanda Brown

\_\_\_\_\_  
Date

\_\_\_\_\_  
Chief, National Acquisition Branch, Robin Doyle

\_\_\_\_\_  
Date

\_\_\_\_\_  
Bureau Competition Advocate, Jennifer Kelly

\_\_\_\_\_  
Date