Sole Source Application and Determination Form

A sole source determination is not effective until the sole source application for determination has been posted on the Purchasing website for thirty (30) calendar days without protest and is subsequently approved in writing by the Vice President of Administration and Finance.

1. Name of Department: NMBGMR
   Contact Name: Urbi Basu
   Phone: 575-835-5921
   Email: urbi.basu@nmt.edu

2. Name of Prospective Vendor:
   Contact Name: ISTI
   Phone:
   Email: paulfriberg@isti.com
   Estimated Cost: $34,800
   Duration (for Services or Professional Services – limited to four years): Two years

3. Purpose/need for purchase and detailed list of items of tangible property, services, or professional services:

   NMTSO needs to upgrade the daily earthquake monitoring workflow to reach the standards of real-time monitoring as intended by the state of NM.

   Please see the attached quote for the list of deliverables.

4. Detailed explanation of criteria developed for this purchase:
   The vendor must be authorized and experienced to provide support for SeisComP software, including the following:
   - *The vendor will develop and upgrade the current NMTSO seismic monitoring workflow in the SeisComP software*
   - *The vendor will add automated alerts for earthquake and state-of-health notifications*
   - *The vendor will provide guidance on the parameters used for local earthquake detection*

5. Provide a detailed, sufficient explanation of the reasons, qualifications or unique capabilities of the prospective vendor that make that prospective vendor the one source for providing the items of tangible property, services, or professional services:
   NMTSO operates a production SeisComP system that provides real-time earthquake detection, location, and reporting for the New Mexico seismic network. We need technical support, maintenance, upgrades, and troubleshooting for this existing configuration. Replacing it with a different software platform is not a viable option.
   Instrumental Software Technologies, Inc. (ISTI) is the only source that can meet this requirement:
   Authorized licensing and distribution. gempa GmbH (Potsdam, Germany) develops and owns the commercial modules for SeisComP. ISTI is gempa's authorized U.S. service provider for licensing and support.
   U.S.-hours support. Seismic monitoring is a time-critical, [24/7] operation. ISTI provides support in U.S. time zones. gempa is eight hours ahead of Mountain Time and does not offer U.S.-hours support.

6. Provide a detailed, sufficient explanation of how the items of tangible property, services, or professional services is/are unique and how this uniqueness is substantially related to the intended purpose of the department/grant:

   The tangible items in the SeisComP workflow are:

   1. *Setting up multiple scanloc (seiscomp module) profiles for NM*
   2. *Addition of a machine learning picker in SeisComp*
   3. *Automated earthquake alerts for NMTSO team*
   4. *Magnitude calibrations for NM earthquakes*

   These items are unique in a way that NMTSO uses SeisComP software for daily earthquake monitoring and has no option to introduce new software. If other vendors are considered to provide software support for other software, that will not be the department's intended purpose. The deliverables from the vendor will significantly improve NMTSO's monitoring capabilities.

7. Please provide a narrative description department's due diligence in determining a basis for the procurement. Include:
   a. method used to research and review other available sources (i.e. list of potential vendors from Purchasing, internet, state pricing agreements, purchasing cooperatives)
   b. list of vendors contacted, the date and method of contact (i.e. email, phone call)
   c. documentation explaining why:
      i. those vendors cannot provide the required items of tangible property, services, or professional services
      ii. other similar items of tangible property, services, or professional services cannot meet the intended purpose of department/grant:

   a. *NMTSO conducted internet research to identify vendors capable of providing technical support for SeisComP, the seismic data acquisition and processing software on which the observatory's operations depend. In addition, NMTSO consulted with*

operators of other U.S.-based seismic networks in neighboring states regarding the vendors they use for comparable support. This research identified Instrumental Software Technologies, Inc. (ISTI) as the only authorized provider of SeisComP support services in the United States.

b. *Alternate options reviewed and rejected:*

1. *SeisComP open-source community forum and documentation: Volunteer-run, with no guaranteed response times, no contractual accountability, and no access to the proprietary modules our system uses.*
2. *Websites of other U.S. seismological firms (e.g., Kinemetrics, Nanometrics) reviewed: None is authorized to license SeisComP commercial modules or provide SeisComP support.*
3. *In-house support: NMTSO lacks the specialized expertise, and staff would still have no access to licensed modules or developer fixes.*

c. *Apart from ISTI, no other vendors have been found online or through the scientific community that can provide these services. Similar items of service would mean a complete new setup of the NMTSO lab, which would require significant additional workload from the external vendor, cost, and training of NMTSO staff*

I certify I have performed thorough and diligent research and analysis to determine that ISTI is the only source capable of providing the required SeisComP software support. I understand that violations of the New Mexico Procurement Code (Chapter 13, Article 1 NMSA 1978) can carry severe penalties. I affirm that the information provided in this Sole Source Determination is true and accurate to the best of my knowledge and belief.

Name, Title:
Urbi Basu

Research Scientist/NMTSO, manager

AdobeSign/Date
Urbi Basu
09/25/2026

Review: Purchasing Services (Name, Title):
Meradeth Montoya, Associate Director of Purchasing

AdobeSign/Date
Meradeth Montoya
9.25.26

Website Posting Date: 09/26/2026

Posting Expiration Date: 10/26/2026

Protested (Yes/No):

Approval: Delilah A. Walsh
Vice President of Administration and Finance

AdobeSign/Date
25-Sep-2026

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