



DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES
DIVISION OF PROCUREMENT SERVICES
 STATE OF MAINE

PROCUREMENT JUSTIFICATION FORM (PJF)

This form must accompany all contract requests and sole source requisitions (RQS) over \$5,000 submitted to the Division of Procurement Services.

INSTRUCTIONS: Please provide the requested information in the white spaces below. All responses (except signatures) must be typed; no hand-written forms will be accepted. See the guidance document posted with this form on the Division of Procurement Services intranet site (Forms page) for additional instructions.

PART I: OVERVIEW			
Department Office/Division/Program:		DACF, Maine Geological Survey	
Department Contract Administrator or Grant Coordinator:		Steve Dickson	
(If applicable) Department Reference #:			
Amount: (Contract/Amendment/Grant)	\$ 46,400.00	Advantage CT / RQS #:	RQS 01A 20221006*477
CONTRACT	Proposed Start Date:	Proposed End Date:	
AMENDMENT	Original Start Date:	Effective Date:	
	Previous End Date:	New End Date:	
GRANT	Project Start Date:	Grant Start Date:	
	Project End Date:	Grant End Date:	
Vendor/Provider/Grantee Name, City, State:		Fischer Scientific, PO Box 3648, Boston, MA	
Brief Description of Goods/Services/Grant:		Mining-grade portable X-Ray Fluorescence (pXRF) unit for rapid geochemical mapping plus stand and transport case. Needed by March 2023.	

PART II: JUSTIFICATION FOR VENDOR SELECTION			
Check the box below for the justification(s) that applies to this request. (Check all that apply.)			
<input type="checkbox"/>	A. Competitive Process	<input type="checkbox"/>	G. Grant
<input type="checkbox"/>	B. Amendment	<input type="checkbox"/>	H. State Statute/Agency Directed
<input checked="" type="checkbox"/>	C. Single Source/Unique Vendor	<input type="checkbox"/>	I. Federal Agency Directed
<input type="checkbox"/>	D. Proprietary/Copyright/Patents	<input type="checkbox"/>	J. Willing and Qualified
<input type="checkbox"/>	E. Emergency	<input type="checkbox"/>	K. Client Choice
<input type="checkbox"/>	F. University Cooperative Project	<input type="checkbox"/>	L. Other Authorization

Please respond to ALL of the questions in the following sections.

PART III: SUPPLEMENTAL INFORMATION

1. Provide a more detailed description and explain the need for the goods, services or grant to supplement the response in Part I.

The Maine Geological Survey has been awarded a 3-year grant through the U.S. Geological Survey Earth Resource Mapping Initiative (EMRI) program to map and investigate the iron-manganese deposits in Aroostook County, Maine. Part of this work requires rapid characterization of the chemistry of rocks using a mining-grade pXRF unit for geochemical mapping and to assist in sample selection. Previously the survey has rented a unit for other projects, but the price per week to rent for the time needed on a 3-year project makes purchasing a unit cost effective.

The portable (hand-held) XRF unit needs to have **mining** and **soils** calibrations for use in the field to investigate primarily bedrock outcrops and hand samples ranging from metallic mineral deposits to felsic pegmatites and everything in between (**not** laboratory/benchttop only). Minimum element suite for mining calibration: Sb Sn Cd Pd Ag Mo Nb Zr Y Sr Rb U Th Bi As Se Hg Au Pb W Zn Cu Re Ta Hf Ni Co Fe Mn Cr V Ti Ca K Ba Al P Si Cl S Mg (41 elements). Minimum suite for soils calibration: Ag Mo Zr Sr Rb U Th As Se Hg Au Pb W Zn Cu Ni Co Fe Mn Cr V Ti Sc Ca K S Ba Cs Te Sb Sn Cd Pd (33 elements). A **test stand or field station** is necessary that allows hands-free measurement of samples and is fully shielded to protect operator from primary or scattered radiation. Must also have the ability for "remote" control to trigger analyses, data display, and connection to a laptop. A **transport case** is needed to protect the device. The pXRF model that is acceptable to this project and has been vetted by the scientific subject experts on the team is a Niton XL5 plus XRF Analyzer.

2. Provide a brief justification for the selected vendor to supplement the response in Part II. Reference the RFP number, if applicable.

We need the pXRF unit as soon as possible to keep this project on track. An estimate provided from Fisher Scientific for a Niton XL5 plus mining unit would take 15 weeks to fulfill, as an example.

3. Explain how the negotiated costs or rates are fair and reasonable; or how the funding was allocated to grantee.

The funding for this pXRF unit was written into the Federal grant proposal. The funding awarded is based on a quote from Fisher Scientific for a Niton pXRF for \$46,309.12. The quote and specifications are provided with this form.

4. Describe the plan for future competition for the goods or services.

MGS will continue to conduct professional scientific studies with the best scientific practices possible given time constraints and monetary restrictions.

PART IV: AMERICAN RESCUE PLAN ACT (ARPA) / MAINE JOBS & RECOVERY PLAN (MJRP)

Does this request utilize ARPA/MJRP funds?

Yes – If Yes, please attach the approved Business Case(s).

No – If No, proceed to Part V.

PART V: APPROVALS

The signatures below indicate approval of this procurement request.

Signature of requesting Department's Commissioner (or designee):	DocuSigned by: <i>Randy Charette</i> 8E3DD450C23241E...		
Typed Name:	Amanda E. Beal, Commissioner	Date:	11/2/2022
Signature of DAFS Procurement Official:	DocuSigned by: <i>William J.E. Allen</i> 2D5B6E39F57E44A...		
Typed Name:	William J.E. Allen	Date:	11/4/2022

NOI 1120221120 11/07/2022 - 11/13/2022