Proposed Sole Source Purchase Form

Pursuant to New Mexico Procurement law, the UNM Purchasing Department will post your completed form on the UNM Sunshine Portal for 30 days prior to purchase of the goods/services.

I. GENERAL INFORMATION. PLEASE PROVIDE THE FOLLOWING:

<table>
<thead>
<tr>
<th>Date of Request</th>
<th>February 12, 2018</th>
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</thead>
<tbody>
<tr>
<td>Request Submitted by</td>
<td>Autumn Roberts</td>
</tr>
<tr>
<td>Department</td>
<td>Internal Medicine</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:auroberts@salud.unm.edu">auroberts@salud.unm.edu</a></td>
</tr>
<tr>
<td>Phone</td>
<td>925-0835</td>
</tr>
<tr>
<td>Proposed Vendor</td>
<td>John Cook</td>
</tr>
<tr>
<td>Amount</td>
<td>$68,000</td>
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</tbody>
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Buyer Team - See Commodity list at [http://www.unm.edu/~purch/commcodes.pdf](http://www.unm.edu/~purch/commcodes.pdf)

Why is this purchase needed?

Customized analytics are needed to fulfill the parameters of the PARALLAX study.

II. BASIS FOR SOLE SOURCE PROCUREMENT. CHOOSE APPLICABLE BOX(ES) AND PROVIDE ADDITIONAL INFORMATION, AS REQUESTED:

☒ Proprietary item, technology or service only available from the proposed vendor. (Check box and describe proprietary component)

The vendor will develop a code designed for this study only that will generate the design matrix for smoothers and parametric components of the GLMM and will calculate the likelihood of the aforementioned GLMMs. Mr. Cook has the unique skill set of developing software that includes statistical analysis and numerical mathematics. He has rare extensive experience in healthcare study software development, clinical data management, statistical methodology research and clinical trial design. With his expertise, he is able to take advantage of data by uncovering latent insights, create mathematical models, overcome computational difficulties, and interpret results.

☐ Compatibility requirement with existing item, technology or service. (Check box and describe compatibility requirement)

UNM Proposed Sole Source Form – Rev 6/14/13
Renewal of support/maintenance/subscription of software, technology or other intellectual property. (Check box and describe)

☑ Other Basis for Sole Source: Please describe below:

Mr. Cook is the approved vendor by the PARALLAX grant funding agency, Dialysis Clinic, Inc. (DCI).

III. SUPPLEMENTAL DETAILS. PLEASE PROVIDE ADDITIONAL INFORMATION AS REQUESTED BELOW:

Describe in detail the unique capabilities of the proposed vendor’s goods/service and/or personnel performing the work and why this constitutes the only source. Focus on what is unique about the goods/service and why no other vendor could meet your needs.
The vendor has unique capabilities in implementing novel statistical analyses that involve advanced numerical mathematics in software in a number of computer languages. He has been retained by such data intensive enterprises as Google and Amazon, large cancer research facilities (University of Huston, Fred Hutchinson) and pharmaceutical companies (Amgen). His unique experience in biostatistics, numerical mathematics and programming are perfectly aligned to the requirements of this project which uses numerical mathematics to implement novel statistical algorithms for the analysis of biomedical data.

Describe the due diligence made to locate other possible sources including communications with other universities, communications with similar providers, web searches, yellow page searches, review of advertisements and trade publications, etc.

Dr. Argyropoulos reached out to colleagues within the university to locate individuals with capabilities that aligned with the requirements of the project. I searched the website of the Society of Industrial and Applied Mathematics for companies/individuals with the same characteristics and followed their publication record and previous projects as part of the due diligence for this project.

List the other vendors who were contacted. Please describe the specs/qualifications/criteria that the other vendors were unable to satisfy.

Dr. Argyropoulos reached out to the following: Prof Pankratz, in our division, has experience in statistical analyses but not in numerical mathematics or programming and; Prof Cristian Bologa who has experience with programming and numerical mathematics but not statistics.