RFP338-PSC

UNIVERSITY OF LOUISVILLE

PROCUREMENT SERVICES

PERSONAL SERVICES CONTRACT (PSC)
REQUEST FOR PROPOSAL(RFP)

REQUEST DATE:	4/2/25
DUE DATE & TIME:	4/28/25 2:00PM EST
SPEED TYPE:	J6294
DEPARTMENT NAME:	University Planning, Design, and Construction
DEPARTMENT CONTACT:	Brandy Barry
CONTRACT ADMINISTRATOR:	Jamie Peck
CONTRACT SPECIALIST EMAIL:	Jamie.peck@louisville.edu

SERVICE REQUESTED (brief description)	**Geotechnical Investigation Services for the New Health Science Simulation, Academic, and Innovation Facility Project**

EMAIL PROPOSALS TO:
UNIVERSITY OF LOUISVILLE
ATTN: PROCUREMENT SERVICES, SERVICE COMPLEX BUILDING
LOUISVILLE, KY 40292

CONTRACT SPECIALIST NAME: Jamie Peck

EMAIL : Jamie.peck@louisville.edu

THE BOTTOM PORTION OF THIS FORM IS TO BE COMPLETED BY THE VENDOR AND SUBMITTED WITH PROPOSAL

Equal Employment Opportunity – All parties must be in compliance with executive order 11246 of September 24, 1965 as amended by executive order 11375 of October 13, 1967.

STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under penalty for false swearing as provided by KRS 523.040:

1. That attached Request for Proposal has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the Request For Proposal designed to limit independent competition.
2. That the proposer is legally entitled to enter into the contract with the University of Louisville, an agency of the Commonwealth of Kentucky, and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 45A.325, to 45A.340, 45A.990, 164.990, and 164.821 (7).
3. That I have fully informed myself regarding the accuracy of the statements made above.

SIGNATURE:		PRINT NAME	
FIRM NAME:		ADDRESS:	
PHONE:		CITY, STATE, ZIP CODE:	
EMAIL:		WEBSITE:	

REQUEST FOR PROPOSAL COMPONENTS

1. Overview:

The University of Louisville (Owner) is requesting proposals for Geotechnical Investigation Services for the New Health Science Simulation, Academic, and Innovation Facility Project located on the University of Louisville Health Sciences Campus. This project consists of constructing a new building with approximately 200,000 sf. Expected number of stories is between 4 and 7 with anticipated interior column loads in the range from 1500kips to 2000kips.

The intent of this investigation is to obtain information regarding subsoil conditions at the Project site for design and construction of the Project as stated. Geotechnical Engineer shall review the scope of work and advise the Architect if any additional exploration and testing is required for a professional interpretation of subsurface condition at the project site. Scope changes require authorization by the Owner, prior to performing work.

Selected Geotechnical Company shall furnish all labor, materials, tools, transportation, permits, equipment, and incidentals necessary to perform the Work in accordance with applicable codes, ordinances, rules, regulations and this specification.

Please find a site plan showing the proposed building location in addition to the proposed boring locations in Exhibit A.

2. SCOPE OF SERVICES:

Scope of services shall include the following:

1. Conduct a reconnaissance of the site and get acquainted as to the general and local conditions and all matters pertaining to the Work. Before proceeding with the Work, contact the Owner and all utility companies for information regarding buried utilities and structures and take appropriate measures. This will include relocation of borings to avoid these utilities and structures. Plan drilling operations so as not to interfere with Owner's activities. All existing facilities and site elements, including buildings, loading and service docks, entry drives, parking, walks and landscape materials are to be protected and access to buildings must be maintained during the field investigations. Coordinate with Owner and Architect prior to commencing the work.

2. Geotechnical exploration including borings, taking various samples, etc. as Vendor determines to be necessary for this investigation. One (1) 100 ft. boring shall be provided for purposes of site classification in accordance with KBC 2018, Section 1615. If rock is encountered, the borings need only extend into the rock enough for the rock to be properly classified.

3. Laboratory Testing

4. Geotechnical exploration report shall include as a minimum:

4.1. Recommendations for the following:

4.1.1. Most economical type of foundation system recommendation for this site, including appropriate installation, driving and load test criteria (when appropriate).

4.1.2. Shallow foundation system recommendation:

- 4.1.2.1. Bearing media – recommended net allowable soil bearing values for isolated and continuous footings and /or recommended allowable bearing capacity of rock.
- 4.1.2.2. Lateral earth pressures: equivalent fluid weights for active, passive, and at rest conditions; coefficient of friction to resist sliding. State required movement to engage passive pressure resistance and appropriate safety factor for structural design.
- 4.1.2.3. Specify minimum depth, width, frost depth etc.
- 4.1.2.4 Provide subgrade modulus for mat foundations and slab-on-grade.
- 4.1.2.5 For soil bearing foundation systems, provide expected settlement estimates (total and differential).
- 4.1.2.6 Indication of whether an increase in allowable pressures is permitted for Wind/Seismic loading.

4.1.3. Deep foundation system:

- 4.1.3.1 Provide recommendations for a deep foundation system with allowable pile capacities and estimated tip of bearing elevation/strata.
- 4.1.3.2 Indicate the basis of load transfer to soil (end bearing, side friction, combination indicating contribution of each, etc.)
- 4.1.3.3 Recommendation for reduction in capacities due to group effects.

4.1.3.4 Recommendation for lateral and uplift capacities with associated displacements. E/g., if engaging passive pressure for lateral resistance, indicate required movement to engage passive pressure.
4.1.3.5 Indication of whether an increase in allowable pressures is permitted for Wind/Seismic loading and provide value.
4.1.3.6 Anticipated total and differential settlement (considering both immediate and time dependent).
4.1.3.7 Driving criteria for the installation of deep foundation elements.
4.1.3.8 Recommendations for the number and type of load tests, if required. Include criteria for determining allowable loads from the test loads.
4.1.3.9 Recommendations for monitoring and testing of foundation element installation in the field.
4.1.3.10 Suitability of deep foundation materials for the intended environment.
4.1.3.11 Any other pertinent information regarding design, procurement, installation, performance, inspection and any other considerations.

4.1.4. Slab on grade recommendations including type and underlying thickness supporting media, and subgrade modulus.
4.1.4.1. Do not note the slab as floating unless absolutely required, we wish to have the option to use turn down slab system if possible.

4.1.5. Basement walls and Retaining wall design recommendations.
4.1.5.1. At rest, active, passive for site fill and stone backfill.
4.1.5.2 Provide recommended backfill and drainage recommendations.

4.1.6. Site preparation requirements.

4.1.7 Soil material and compaction requirements for site fill, backfill for the support of structures and pavements. Identify if site soil is suitable for structural fill. Recommendations for base courses and their preparation beneath concrete slab-on-grade. Provide general earthwork requirements for site including cut, fill and soil preparation.

4.1.8. Pavement design
4.1.8.1. Include recommendations for regular and heavy-duty (asphalt and concrete) pavement.
4.1.8.2. Include subgrade preparation recommendations and section thicknesses for rigid and flexible pavement and back-up documentation for all paved areas including parking, service areas, equipment/service yards and miscellaneous paved areas.

4.2. Boring logs:

4.2.1. Submit an electronic copy of Geotechnical Report(s) including boring logs and summary of laboratory data to the Owner and the Architect in pdf format. The Owner and the Architect may make and distribute copies of the report(s) and boring logs as necessary in connection with the proposed Project.

4.2.2. Show locations of borings as completed, and any changes in boring numbers.

4.2.3. Provide boring logs plotted and graphically presented showing boring number, sampling method used, date of start and finish, surface elevations, description of soil and thickness of each stratum, depth to loss or gain of drilling fluid, number of blows per 300 mm (1 foot) (N value) and, where applicable, depth to wet cave-in, depth to artesian head, depth to or elevation of groundwater during and after completion of boring (repeat observation after 24 hours) and presence of gases if observed. Note the location of strata containing organic materials, wet materials or other inconsistencies that might affect the design or construction of the proposed structure.

4.2.4. Include representative profile(s) through the site reflecting subsurface conditions.

4.2.5. Include results of all laboratory tests performed including test methods or standards used.

4.3. KBC seismic site classification with calculations (based on the 100 ft boring). Geotechnical Engineer is encouraged to notify design team/owner if a site-specific seismic study using a shear wave velocity test, etc., will likely be beneficial in obtaining a better site classification.

4.4. Where applicable, provide evaluation and recommended design and construction mitigation for following potential hazards resulting from earthquake motions, as pertinent to the project site:
4.4.1. Slope Instability.
4.4.2. Liquefaction.
4.4.3. Surface Rupture due to faulting or lateral spreading.
4.4.4. Assessments required by IBC 1802.2.7 for areas of high seismic risk (Seismic Design Category D, E or F).
4.4.5. Water soluble sulfate content of soil.

4.5. Where applicable, provide mitigation requirements, and design and construction provisions for expansive soils.

4.6. Groundwater / drainage concerns: underdrain requirements, dewatering recommendations, hydrostatic pressures, etc. Provide water table design elevations for permanent facility.

4.7. Cold weather requirements and recommendations.

4.8. For sites susceptible to Karst activity, make recommendation to the Design Team related to recommended further investigation.

4.9. Recommendation regarding additional/optional testing to mitigate the geotechnical risks. Indicate anticipated risks based on the adjacent site geotechnical report and your experience. These risks include but are not limited to:
- 4.9.1. Need for removal of rock.
- 4.9.2. Over-excavation of soil for soil improvement.
- 4.9.3. Treatment of Karst Features.

4.10. Unit prices per day for additional tests to address concerns referenced in 4.9.3 above. These investigations include but are not limited to:

4.11. Other pertinent information necessary for the design and construction of the building.
- 4.11.1. Rock sounding.
- 4.11.2. Ground Penetrating Radar.
- 4.11.3. Additional borings.

4.12. Site plan showing the locations of the borings. Coordinate the location of borings with below grade utilities. Engage utility locating company as required.

4.13. Effect of weather and/or construction equipment on soil during construction. Recommendation for protection, drainage and treatment of soil during construction.

4.14. Quality control criteria for monitoring site and foundation work.

4.15. Cathodic protection requirement for buried underground metal structures.

4.16. Field infiltration tests measured with a Dual-Ring Infiltrometer per ASTM D3385.

4.17. Soil infiltration results with a table showing the boring number, test depth, soil at the base of infiltration test, duration of test, estimated field measured infiltration rate (inches/hour), estimated permeability rate and recommended design infiltration rate. Recommendation of design infiltration rate per hour is to be based on a minimum factor of safety of two (2) applied to the measured infiltration rate according to the Low Impact Development (LID) Design Manual for Michigan. If, in the professional opinion of the geotechnical engineer, the soils are not suitable for infiltration it shall be so stated.

5. Provide three (3) bound copies and one (1) unbound copy of the report.

6. Back fill the boring holes such that no hazardous conditions exist due to boring operations.

3. <u>LAYOUT OF THE WORK:</u>

1. Use the benchmark elevation as indicated on the site survey as reference for ground elevations.

2. Establish benchmark elevation at the site, record its location, and reference its elevation to official datum.

3. The Geotechnical Engineer shall work with the Project Surveyor and Architect to locate benchmarks and site control consistent with the existing site surveys.

4. Location and elevation of borings shall be by the Geotechnical Engineer.

5. The Architect's Surveyor will locate the soil borings on site with the Geotechnical Engineer present and any adjustments that are required will be approved by both the Architect and Geotechnical Engineer to ensure adequate site coverage and appropriate field investigations to accommodate the needs of the design. The Architect's Surveyor will locate the soil borings horizontally and vertically and will record these on a plan for the Geotechnical Engineers use. Stakes will be labeled and provided in the field for all borings.

4. <u>DRILLING AND SAMPLING:</u>

1. Perform drilling and sampling in accordance with ASTM Standards and other standards, including but not limited to ASTM D 1586, D 1587, D 1452, and D2113. Take soil samples at 0.75-meter (2-1/2 feet) intervals to a depth of 3.0 meters (10 feet) and at 1.5-meter (5foot) intervals thereafter in each of the borings.
2. Preserve samples as per ASTM Standards indicated and prepare field boring logs under the supervision of a Geotechnical Engineer.
3. Upon completion of the second boring, telephone the Architect and discuss the results.
4. Determine the elevation and approximate rate of inflow of the ground water where encountered for each boring. Record ground water measurements in each hole upon completion of drilling and at 24 hours after drilling at locations to be determined by Geotechnical Engineer and Architect.
5. Notify the Owner before leaving the site if significant unexpected conditions are encountered to discuss possible changes in the scope such as need of test pits for site containing significant fill materials, loss-on-ignition and tri-axial compression for soft or organic soils, etc. Perform any additional borings or exploration if authorized by the Owner.
6. Retain samples for 60 days unless requested otherwise by the Owner.
7. Additional Samples from borings to be taken and handed off to the Owners Environmental Vendor for urban fill testing. Coordinate with the Owner for their Environmental vendor to be onsite during sampling for hand offs.

5. VACATING THE SITE:

On completion of drilling, backfill the test holes as required by the governing authorities. Remove all debris, soils and other material from site. Return surface areas to original condition and grades by restoring lawns, repairing ruts and patching boreholes in pavement and sidewalk with either cold-patch asphalt or redi-mix concrete to a depth to match surrounding pavement and/or sidewalk.

6. TESTING:

A. Perform the following field or laboratory tests as appropriate on representative soil samples taken at adequate intervals to accurately characterize subsurface conditions encountered. Use this information to establish the geotechnical design parameters and other information required for the design and construction of the Project. Perform tests in accordance with the applicable ASTM Specification and other recognized standards.
   1. Stratigraphy
      a. Soil classification: ASTM D2487, D2488.

   2. For cohesive soils
      a. Moisture content: ASTM D2216.
      b. Atterberg limits: ASTM D4318.
      c. Unconfined compressive strength: ASTM D2166.
      d. Consolidation: ASTM D2435.
      e. Presence of organic or other deleterious materials.
      f. Swelling: ASTM D4546.
   3. For granular soils
      a. Insitu density: ASTM D2167, D2922.
      b. Grain-size distribution: ASTM D422.
      c. Shear-strength.
      d. Presence of organic or other deleterious materials.
   4. Corrosion Consideration
      a. PH of soil: ASTM G51
      b. Soil resistivity: Laboratory testing with Miller Soil box or field testing as per ASTM G57.
      c. Chemical analysis: appropriate test to determine chloride and sulphide content.
      d. Perform above tests on representative soil samples to 3 meters (10 feet) below existing grade to determine potential for corrosion of buried metal structures.
   5. Special considerations
      a. Moisture-density relationship: ASTM D1557.
      b. Resilient modulus of subgrade soil.
      c. Water soluble sulfate (S04) in soil (percent by mass) on representative soil samples at foundation level.

B. Perform any additional tests which are required for a professional interpretation of subsurface condition at the Project site and to provide design recommendations.

C. Upon request, submit the copies of the field soil boring logs and findings to the Owner and the Architect for preliminary evaluation of the findings.

7. REQUIRED PROPOSAL SUBMITTALS:

- Financial Proposal (Fee):
  i. Provide a lump sum fee for all services as specified in these RFP documents, including all expenses for the initial boring plan shown on Exhibit A.
  ii. For additional tests please provide the following fee breakouts:
  iii. Additional Mobilization Fee

iv. Unit prices per day for additional tests to address concerns referenced in 4.9.3 above. These investigations include but are not limited to:
    1. Other pertinent information necessary for the design and construction of the building.
        a. Rock sounding.
        b. Ground Penetrating Radar.
        c. Additional borings.
v. Provide an itemized cost breakdown of the fee as follows:
    1. All structural borings, testing and recommendations.
    2. Infiltration test described in the scope of services under 4.16 and 4.17.

- Firm Experience and Qualification:
    i. Provide a minimum of two (2) similar projects (include references) your firm has completed that are similar in nature to the scope of this RFP – higher education facilities or simulation facilities.
    ii. If any, provide references for experience working in the public sector, specifically with a state University.
    iii. Qualified personnel shall be employed to perform the Work under the supervision of a licensed Professional Engineer experienced in geotechnical engineering.
- Schedule:
    i. Your report will be required within Four (4) weeks from the date of authorization to proceed.
        1. Provide a schedule in your proposal including:
            a. Anticipated start date (assuming contract is awarded in Mid-May)
            b. Duration of drilling for structural borings
            c. Early delivery of respective interim recommendations
            d. Final report
    ii. Provide notification to UofL DEHS department two (2) days prior to drilling. DEHS personnel contact information to be provided.
- Work Plan:
    i. Provide a plan and schedule for the Geotechnical Services described within, including your recommendations for number of borings, depth of borings, approximate locations, taking various samples and types of tests to be performed as you determine to be necessary for your investigation and recommendations.
    ii. Provide a plan for drilling in the proposal including:
        1. Completing daily boring activity in “zones” corresponding to parking layouts as discussed in the preproposal.
    iii. The Work Plan should include:
        1. Sequence of work to complete daily boring activity in “zones” corresponding to parking layouts.
        2. Means for protecting
        3. Methods for project management and delivery

* Cover sheet of this RFP is to be submitted with proposal along with signed addendum(s), if any. The University reserves the right to reject any proposal if all information is not provided as requested in these RFP documents. Do not submit additional terms and conditions with proposals, additional terms and conditions may be cause for the proposal to be rejected.

***KRS 45A requires that A/E services be procured based on qualifications first, with fee negotiations happening afterward, rather than selecting based on the lowest bid or fee.*

8. OTHER REQUIREMENTS

- Contact the Owner, to schedule site access and make necessary arrangements.

- Geotech Engineer may use existing parking lot for staff vehicles, but vehicles must remain within barricaded drilling areas. If parking in staff lot passes must be purchased from the parking office (weekly and monthly passes available).

9. REQUIRED PROFESSIONAL LIABILITY INSURANCE

Prime firm shall carry industry standard, general liability coverage of $1,000,000 per occurrence and $2,000,000 aggregate, automotive liability of $1,000,000, umbrella liability of $2,000,000, workers compensation of $1,000,000, and professional liability of $2,000,000. For fees exceeding the liability limits, the team shall be allowed to utilize the aggregate of coverage among all team members or provide a single policy covering the total fee amount over the life of the contract. UofL shall be made an additional insured on any policies utilized to satisfy the required coverage.

10. METHOD OF AWARD:

Financial Proposal	40 %
Firm Experience and Qualification	20 %
Proposed Schedule	20 %
Responsiveness of Work Plan	20 %
TOTAL	**100%**

*A short list for interviews and presentations may be issued if the evaluation committee decides that it is needed for further evaluation of proposers, however, this is not required. The evaluation committee also reserves the right to request interviews from any of the proposers, if needed, for further evaluation.

11. RFP SCHEDULE:

- RFP Posted – 4/2/2025
- Pre-Proposal Conference – 4/9/2025 at 3:00PM, EST. **MANDATORY**
- Questions Due – 4/16/2025 by 2:00PM, EST.
- Addendum Posted – 4/23/2025
- Proposals Due – 4/30/2025 by 2:00PM, EST.
- Short List Announcement – Week of 5/5/2025
- Interviews/Presentations – Week of 5/12/2025
- Contract Awarded – Mid May

12. DESIRED CONTRACT PERIOD:

The contract period will be from the date in which the contract is fully executed until all geotechnical investigation services have been completed and deliverables have been accepted by the Owner. Geotechnical services will begin upon execution of the contract, which is anticipated to be in Mid-May.

NO SERVICES ARE TO BE PROVIDED PRIOR TO THE START DATE INDICATED ON THE FULLY EXECUTED PSC (sample provided).

13. PRE-PROPOSAL CONFERENCE

There will be a **MANDATORY** Pre-Proposal Conference on April 9th, 2025, at the University of Louisville, 615 S Preston Street, Louisville, Kentucky 40202 – KDP Building Corner of Chestnut and Preston. 2:00 PM, EST. We will meet in the lobby.

The purpose of this meeting is to answer questions pertaining to this solicitation. This meeting is to ensure that each potential proposer has a complete understanding of the scope of work involved. A site walk-through will be conducted during this meeting.

Proposers should show arrive early to find available parking; Preston has no parking 3pm-6pm.

Please see the following link for parking information:

https://louisville.edu/parking

14. QUESTIONS:

The University of Louisville will accept questions regarding this RFP only if they are submitted by email no later than April 16th, 2025, by 2:00PM, EST., and are to be emailed to Jamie Peck at jamie.peck@louisville.edu . Answers to the questions submitted will be issued as an addendum and posted to the website location of the RFP https://louisville.edu/purchasing/bids by April 23rd, 2025.

15. COMMUNICATION:

All communication with the University regarding this solicitation shall ONLY be directed to the Contract Specialist indicated on the first page of the solicitation. **Failure to do so may result in disqualification of submitted proposal.**

16. **FOREIGN CORPORATION REGISTRATION (OUT-OF-STATE CORPORATIONS):**

Pursuant to KRS 271B.15-010, any Out-of-State corporate contractor must be properly registered with the Kentucky Secretary of State, before transacting any business within the state of Kentucky. The statute states "(a) foreign corporation…shall not transact business in this state until it obtains a certificate of authority from the Secretary of State." The registration form and instructions are found at https://web.sos.ky.gov/forms/corp/FBE-Certificate%20of%20Authorization_Foreign%20Business%20Entity.pdf.

17. **RECIPROCAL PREFERENCE:**

In accordance with KRS 45A.490 to 45A.494, a resident Offeror of the Commonwealth of Kentucky shall be given a preference against a nonresident Offeror. In evaluating proposals, the University will apply a reciprocal preference against an Offeror submitting a proposal from a state that grants residency preference equal to the preference given by the state of the nonresident Offeror. Residency and nonresidency shall be defined in accordance with KRS 45A.494(2) and 45A.494(3), respectively. Any Offeror claiming Kentucky residency status shall submit with its proposal a notarized affidavit affirming that it meets the criteria as set forth in the above referenced statute.

Forms can be found at http://louisville.edu/purchasing/forms.