

# Request for Qualifications (Architect / Engineer - Dam Rehabilitation)

## State of Ohio Standard Forms and Documents

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**Administration of Project:** Local Agency

Project Name	<u>Lake Hope Dam Rehabilitation</u>	Response Deadline	<u>03/22/2019</u>	<u>4:00 PM</u>	local time
Project Location	<u>Lake Hope State Park</u>	Project Number	<u>DNR-190065</u>		
City / County	<u>McArthur / Vinton</u>	Project Manager	<u>Jacob Bench</u>		
Owner	<u>Ohio Department of Natural Resources</u>	Contracting Authority	<u>Local Agency</u>		
Delivery Method	<u>General Contracting</u>	Prevailing Wages	<u>State</u>		
No. of paper copies requested (stapled, not bound)	<u>4</u>	No. of electronic copies requested (PDF)	<u>2</u>		

Submit the requested number of Statements of Qualifications (Form F110-330) directly to Julie Endicott at 2045 Morse Road, Building E-3, Columbus, Ohio 43229. See Section J of this RFQ for additional submittal instructions.

Submit all questions regarding this RFQ in writing to Julie Endicott at [Engineering@dnr.state.oh.us](mailto:Engineering@dnr.state.oh.us) with the project number included in the subject line (no phone calls please). Questions will be answered and posted to the Opportunities page on the OFCC website at <http://ofcc.ohio.gov> on a regular basis until one week before the response deadline. The name of the party submitting a question will not be included on the Q&A document.

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### Project Overview

#### A. Project Description

Professional engineering services are being requested to provide soil borings, surveying, final design services, construction bidding documents, and construction administration for the rehabilitation of Lake Hope Dam. Lake Hope Dam is a Class II structure owned and operated by the ODNR Division of State Parks and Watercraft in Lake Hope State Park, Vinton County. The impoundment is used for recreation. Currently, the structure does not meet established dam safety standards.

Constructed in 1939, the dam is an earthen embankment approximately 750 feet long with a maximum height of 33.8 feet. The downstream slope of the embankment is approximately 2:1 (H:V) and the upstream slope is approximately 3:1. The freeboard at normal pool is approximately 8.3 feet. Lake Hope Dam has a drainage area of 6,336 acres. Lake Hope has a water surface area covering approximately 130 acres and a storage capacity of 1,040 acre-feet at normal pool.

The principal spillway consists of a 214-foot wide concrete weir, concrete lined chute with sidewalls, and a stilling basin. The entire spillway is severely deteriorated. The lake drain structure is built into a diversion wall. The sluice gate and actuator rod are highly corroded and no longer operational.

#### B. Scope of Services

The selected firm shall use a recently completed assessment of the dam to evaluate the proposed alternatives and develop a final design to bring the dam into compliance with current regulatory requirements. The work includes removing and replacing the existing spillway and lake drain. In addition, design alternative analysis will be completed to consider addressing safe passage of the Probable Maximum Flood (PMF). Other improvement items to increase safety and reduce future maintenance may also be considered.

The selected firm shall apply for and obtain all necessary regulatory permits, assist with addressing downstream/upstream impacts and environmental issues, maintain current estimates of probable construction costs through the design phase, and assist with bidding and construction administration services. All work shall be performed in compliance with all applicable regulatory requirements, including Ohio Dam Safety rules and regulations.

The selected Architect/Engineer (A/E), as a portion of its required Scope of Services and prior to submitting its proposals, will discuss and clarify with the Owner and/or the Contracting Authority, the cost breakdown of the Architect/Engineer Agreement detailed cost components to address the Owner's project requirements. The selected Architect/Engineer (A/E) will participate in the Encouraging Growth, Diversity & Equity (EDGE) Program as required by statute and the Agreement.

During the construction period, provide not less than 40 hours (excluding travel time) on-site construction administration services each week, including (1) attendance at progress meetings, (2) a written field report of each site visit, (3) on-site representation comprised of the A/E and its consultant staff involved in the primary design of the project, all having relevant and appropriate types of construction administration experience.

## Request for Qualifications (Architect / Engineer - Dam Rehabilitation) continued

For purposes of completing the Relevant Project Experience Matrix in Section F of the Statement of Qualifications (Form F110-330), below is a list of relevant scope of work requirements for this RFQ:

1. Performance of hydrologic, hydraulic, and flood routing analyses.
2. Performance of geotechnical analyses pertaining to earthen embankments and abutments.
3. Performance of structural analyses involving the integrity of concrete structures.
4. Performance of seepage and stability analyses for earthen embankments.
5. Knowledge of Ohio Dam Safety Laws and Rules and of regulatory and permitting requirements for dam and water resources related projects.
6. Experience with design of dam-related projects.
7. Experience in construction administration for dam rehabilitation projects.
8. Development of Emergency Action Plans and Operation, Maintenance & Inspection manuals, in accordance with OAC 1501:21-21-04.
9. Experience working for state and/or other governmental agencies under professional services contracts.
10. Experience with stakeholder communications and public information associated with large heavy civil projects.

### C. Estimated Budget / Funding

State Funding: \$1,050,000 (design only)  
 Other Funding: \$0  
 Construction Cost: \$8,000,000 (anticipated future funding)  
 Total Project Cost: \$9,050,000

### D. Anticipated Schedule

Professional Services Start: 07 / 19  
 Construction Notice to Proceed: 08 / 20  
 Substantial Completion of all Work: 09 / 20  
 Professional Services Completed: 09 / 21

### E. Estimated Basic Fee Range (see note below)

8% to 10%

### F. EDGE Participation Goal

Percent of initial Total A/E Fee: 5.0%

NOTE: **Basic Services** include: (1) Study and Report Verification, (2) Preliminary Design, (3) 50% Design, (4) 90% Design (5) 100% Design, (6) Bidding and Award OR GMP Proposal and Amendment (as applicable), (7) Construction Administration, and (8) Closeout services. The **Basic Fee** includes all professional design services and consultant services necessary for proper completion of the Basic Services, including validation of existing conditions (but not subsurface or hidden conditions) and preparation of cost estimates and design schedules for the project. **The Basic Fee excludes any Additional Services required for the project.**

### G. Basic Service Providers Required (see note below)

Lead A/E Discipline: Civil Engineering  
 Secondary Geotechnical Engineering  
 Disciplines: Geology Services  
Hydrologic and Hydraulic Services  
Structural Engineering  
Construction Administration  
Environmental Permitting

### H. Additional Service Providers Required

Surveying  
Field Testing / Laboratory Services  
Geotechnical Investigation  
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NOTE: The lead A/E shall be (1) an architect registered pursuant to ORC Chapter 4703, (2) a landscape architect registered pursuant to ORC Chapter 4703, or a (3) professional engineer or (4) professional surveyor licensed pursuant to ORC Chapter 4733.

### I. Evaluation Criteria for Selection

Previous experience, similar in size and scope to the proposed project, including relevant past work of the prospective firm's proposed staff, sub-consultants and/or other team members; appropriate qualifications of proposed project team members; appropriate size of team for the project; previous working relationship of the team; proximity of prospective firm to the project site; past performance of prospective firm and team for ODNR and others; and dollar value of ODNR and State of Ohio contracts in the previous two years.

Interested A/E firms are required to submit the Commitment to Participate in the EDGE Business Assistance Program form in its Statement of Qualifications (Form F110-330) submitted in response to the RFQ, to indicate its intent to contract with and use EDGE-certified Business Enterprise(s), as a part of the A/E's team. The Intent to Contract and to Perform and / or waiver request letter and Demonstration of Good Faith Effort form(s) with complete documentation must be attached to the A/E's Technical Proposal. Both forms can be accessed via the OFCC website at <http://ofcc.ohio.gov>. The Intent to Contract and to Perform form is again required at the Fee Proposal stage.

## **Request for Qualifications (Architect / Engineer - Dam Rehabilitation) continued**

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For all Statements of Qualifications, please identify the EDGE-certified Business Enterprises, by name, which will participate in the delivery of the proposed professional services solicited in the RFQ.

### **J. Submittal Instructions**

Firms are required to submit the current version of Statement of Qualifications (Form F110-330) available via the OFCC website at <http://ofcc.ohio.gov>.

Electronic submittals should be combined into one PDF file named with the project number listed on the RFQ and your firm's name. Use the "print" feature of Adobe Acrobat or similar software for creating a PDF rather than using a scanner. If possible, please reduce the file size of the PDF. In Acrobat, go to Advanced, then PDF Optimizer. Also, please label the CD or DVD and the sleeve with the project number and firm name if applicable.

Paper copies of the Statement of Qualifications, if requested, should be stapled only. Do not use special bindings or coverings of any type. Cover letters and transmittals are not necessary.

Facsimile or emailed copies of the Statement of Qualifications will not be accepted.

Firms are requested to identify professional registrations, memberships and credentials including: LEED GA, LEED AP, LEED AP+, CCCA, CCM, CCS, CDT, CPE, DBIA, and any other appropriate design and construction industry credentials. Identify that information on the resume page for individual in Block 22, Section E of the F110-330 form.

