

The University of North Carolina at Charlotte
Planning, Design & Construction
2nd Floor - Facilities Management
9151 Cameron Blvd.
Charlotte, N.C. 28223-0001
TEL: 704-687-0615

PROJECT: **UNC Charlotte**
RUP 5 Data Center Expansion
Code 42426 Item 324

Thank you for your interest in the RUP 5 Data Center Expansion project. This information is being provided to all firms which express an interest in the design of the project. Limit the size of your submittal document to no greater than 12½ inches in height and 9½ inches in width, maximum 60 pages including standard forms. Submittals are due **March 20, 2025 by 2:00 p.m.** Do not transmit any submittal information via email.

Submittals **must** include the cover sheet, Sections I and II of the Standard Form 330, the Designer's Supplemental Information Form, along with any additional information considered appropriate. Please deliver **one** copy of the submittal, along with **one** electronic copy in pdf format (USB drive attached to a print submittal) to Room 200A at the address noted above. The hard copy should be bound together as a document and the digital submission should be assembled into a single file.

All submittals will be reviewed by the University Designer Evaluation Committee. The preliminary evaluation process will be complete in **March 2025** and firms selected for interviews will be notified at that time.

Please deliver all submittals to me at the address written above. Any questions about the project should be directed to the Project Manager, **Lisa Lanier Sain** at **llanier@charlotte.edu**.

Sincerely,

Jeanine Bachtel
Director, Project Management

The University of North Carolina at Charlotte
RUP 5 Data Center Expansion
Design Services
Code **42426** Item **324**

PROJECT DESCRIPTION:

The project is for the construction of the RUP 5 Data Center Expansion. The Regional Utility Plant (RUP) 5, constructed in 2020 with 14,800 Gross Square Feet, includes a 3,198 sf campus data center. This project will upgrade the data center and electrical infrastructure to support the increased computing needs of the university as the research enterprise continues to grow.

The design will be consistent with the Guiding Principles of the Campus Master Plan. The University's Design and Construction Manual and Campus Master Plan can be viewed at: <http://facilities.uncc.edu/>

Some of the important design elements will be:

- Simplicity of design with an emphasis on economical construction and maintainability;
- Effective and efficient communication systems, including integration through expansion with the existing systems;
- Safety of visitors, students, and staff during construction;
- Protection of existing critical facilities throughout construction.

Location

The Data Center expansion will be located within the existing Regional Utility Plant 5 and Data Center (#94 on the campus map--<http://facilities.uncc.edu/maps>), near the Klein Science Building.

EXPECTATIONS OF THE DESIGNER:

The designer will assist in determining the exact upgrades necessary for the project and specific infrastructure improvements that will be required to accommodate the expansion. Throughout the design, the Designer may be required to provide three-dimensional views of the building interiors utilizing CAD/BIM software as the design evolves. Estimates of probable cost demonstrating adherence to the established construction budget are required.

The Design team must include professionals who can demonstrate high standards of accomplishment and knowledge in the following areas:

- Programming, designing, and administering construction of projects within budgets and on schedule.
- Working with multiple user groups and committees to build consensus on program and design.
- Familiarity with North Carolina State Construction Office and Department of Insurance requirements and procedures.
- Building Information Modeling from design through construction.
- Success in working with multiple design disciplines.
- Experience with Data Center technology and supporting electrical, mechanical, fire control, and backup UPS generator systems.
- RCDD Consultant: Registered Communications Distribution Designer sub-consultant with experience in Data Center technology must be included in the design team. Consultant must show their knowledge and expertise in Data Centers, design concepts, technology, and IT requirements for a functional centralized data center expansion.

SCOPE OF WORK:

The RUP 5 Data Center Expansion will include architectural, mechanical, electrical, fire protection, data, technology, and IT design.

The design team will meet with campus stakeholders, including facilities management personnel, OneIT staff management, and leadership as necessary to define programmatic needs and functions and expansion requirements.

The design team will prepare schematic design / conceptual designs, design development services, construction documents, bidding and negotiation and construction contract administration services, including cost analysis of developed plans.

The design team will respond to input and review comments from the University and the Office of State Construction.

DESIGNER SELECTION CRITERIA:

As detailed in the North Carolina Administrative Code (01 NCAC 30D .0303), the University's Design Selection Committee will use the following in evaluating qualifications:

- (1) Specialized or appropriate expertise in this type of project.
- (2) Recent performance on data center projects.
- (3) Adequate staff for the proposed project design team.
- (4) Current workload and State projects awarded.
- (5) Proposed design approach for the project.
- (6) Recent experience with project costs and schedules.
- (7) Construction administration capabilities.
- (8) Proximity to and familiarity with the area where project is located.
- (9) Record of successfully completed projects without major legal or technical problems.
- (10) Historically Underutilized Business (HUB) participation and utilization in the team structure.
- (11) The team's recent experience with NC State Construction Office.

Note:

For all relevant project examples submitted, provide a matrix indicating which design team members worked on the project(s).

BUDGET:

The total budget for this project is \$620,000 which includes all design support services, design fees, technology infrastructure, and infrastructure tie-in from service yard. Future phases will connect the infrastructure installed in this phase, as well as upgrading the capacity of UPS A and B.

This sheet is to be the cover sheet for the submittal. If the submittal is bound in a binder, this will be the top sheet visible upon opening the binder cover.

SUBMITTAL
March 20, 2025

Architectural Services

UNC CHARLOTTE
Code 42426 Item 324

FIRM INFORMATION

Mechanical/Electrical/Plumbing Firm &
NC License #

Location (Headquarters & Office Serving this Project)

Subconsultant Firm & NC License #

Location (Headquarters & Office Serving this Project)

RCDD/Data Center Consultant

Location (Headquarters & Office Serving this Project)

Structural Engineering Firm

Location (Headquarters & Office Serving this Project)

Add others as needed (Survey, Geotechnical, etc.)

Location (Headquarters & Office Serving this Project)

**RUP 5 Data Center Expansion
UNC Charlotte**

Design Firm _____
Contact Name _____
Phone: _____
Email: _____

DESIGNER'S STAFFING INFORMATION (To follow cover sheet)

Instructions: Provide information listed below regarding personnel who will be assigned to this project. One person may be assigned to more than one responsibility. Add additional disciplines as necessary. In addition to this form, submit resumes for all personnel who will work on the project.

List most recent projects on which this person has participated; indicate which are North Carolina State-owned:

PRINCIPAL IN CHARGE

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DESIGN LEADER

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CONSTRUCTION ADMINISTRATOR

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RCDD/DATA CENTER CONSULTANT

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

STRUCTURAL ENGINEER

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

MECHANICAL ENGINEER

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

ELECTRICAL ENGINEER

Name: _____ License # _____ Office Location _____

Past or Current Projects	Complete %	Location	Responsibility
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Submitted by: _____

Signature: _____