Mechanical Designer

Founded in 1975, BR+A Consulting Engineers maintains a total staff of over 400 employees located at our main office in Boston and branch offices in New York City, NY; Philadelphia, PA; Washington, DC; Miami, FL; Chicago, IL; St. Louis, MO; Tampa, FL, Charlotte, NC and Charleston, SC. BR+A provides state-of-the-art integrated and coordinated mechanical, electrical, plumbing and fire protection consulting engineering, technology systems design, lighting design, and building commissioning services.

BR+A is seeking applicants for a Mechanical Designer in our Charlotte, NC office. The candidate would be strongly motivated, well organized, and show professional initiative. The applicant should be able to take ownership of assignments and perform well both independently and as part of the project team. The ideal candidate would have the following skills:

- 1-3 years of Experience in designing detailed Mechanical Systems for Healthcare, Higher Education, and Laboratory projects;
- Proficient in Revit;
- Perform advanced heating and cooling load calculations with Trace or HAP;
- Develop sections and elevations of complex ductwork and piping areas;
- Develop air and water flows;
- Understand fan and pump curves to properly select equipment for application;
- Use the psychrometric chart properly for any HVAC system;
- Meet with vendors to determine specification requirements for application;
- Coordinate with other disciplines (Plumbing/Fire Protection, Architectural, Structural, etc) for all HVAC details;
- Understand work planning and manage the design process to the available hours in the work plan;
- Understand the proper scope of SD, DD, CD level documents and deliver appropriate documentation;
- Understand both constant and variable flow systems, and properly apply equipment;
- Performs field verification and take-offs of existing systems for renovation projects;
- Has thorough knowledge of Building Codes, ASHRAE Guidelines, FGI Guidelines, NC DHRSR Requirements and other Codes as they relate to design of mechanical systems.

Position Requirements:

- Bachelor’s degree in Mechanical Engineering or Engineering Technology;
- Experience in designing Healthcare, Higher Education or Laboratory projects;
- Professional Engineer license.
- Excellent Organizational and Communication skills;
- Proactive and Collaborative team member.
We offer excellent compensation and a competitive benefits package, including Medical/Dental coverage and 401K, to all of our full-time employees.

BR+A is an Equal Opportunity Employer. All qualified individuals are encouraged to apply, regardless of race, gender, religion, age, national origin, disability, veteran status or sexual orientation. The candidate must pass a drug test.

Qualified candidates should forward their resume and cover letter.