Job Description

**Job Title:** Senior Research Scientist (Research Lead)
**Level:** Individual Contributor
**Location:** Research Triangle Park, NC

bioMASON is a unique biotechnology start-up manufacturing company with a natural process that will significantly revolutionize the building and construction industry. bioMASON employs microorganisms and chemical processes to manufacture biological cement-based building materials in ambient temperatures.

Concrete is the second most consumed substance on earth following water. The production of cement accounts for over 8% of global CO2 emissions. bioMASON is driven by scaled proof that there is a better way to reduce these emissions.

bioMASON’s products include proprietary manufacturing processes and materials. bioMASON’s products make it possible to manufacture in ambient temperatures using locally available materials, without using fuel or heat sources. bioMASON enables savings in energy costs and zero carbon emissions.

bioMASON offers the opportunity to manufacture biological cement materials with a revolutionary process that does not use fossil fuels. Instead, products are grown in less than 72 hours using natural biocement® as a binder for aggregates. Aggregate materials are waste and locally sourced. Biocement Products enable manufacturing to take place in ambient temperatures, using existing concrete equipment. bioMASON made products with biocements are tested in ASTM standard labs for strength and durability and exhibit higher performance.

bioMASON is distinguished by its unique technology, manufacturing costs, the use of local materials, greater environmental responsibility, customizable manufacturing process, and relatively low capital requirements.

The first commercially available product is bioLITH® Tile. The company competes in the marketplace through direct manufacturing and contracts.

bioMASON is privately held and headquartered in Research Triangle Park, North Carolina. For additional information, please go to the company’s website at [www.biomason.com](http://www.biomason.com).

**Position Summary**

The Sr. Research Scientist, Lead is responsible for leading development projects related to the use of bioMASON technologies in novel infrastructural applications. This role is a part of the Contracts R&D group and will have the opportunity to lead novel R&D projects for industry and government projects.

**Key Responsibilities**

- Project management for contract research related to biocementation applications using bioMASON’s technologies.
● Manage a multi-disciplinary team of scientists, engineers, and technicians to execute project aims,
● Responsible for authoring regular technical reports and supporting documentation.
● Coordinates with the CTO and Director for maintaining and executing development agendas.
● Collects, analyzes, and documents data and proposes strategies for continued process development and execution.
● Implements existing, modified, and new material testing strategies for characterizing and tracking process material performance.
● Coordinates with internal and external resources to satisfy project requirements and achieve project goals.

Qualifications and Requirements

● Advanced Degree in Materials Science, Civil Engineering, Geotechnical Engineering, or a related field of study.
● Previous work in an industrial research and development environment.
● Ability to travel up to 15% to direct field prototype demonstrations.
● Experience in technical writing, reporting, and milestone-driven applications research.
● Technical expertise and interest in applied engineering and/or material systems and processes.
● Demonstrates strong data collection, records management, and analysis skills.
● 3 or more years of proven effective project management experience in leading research.
● Ability to work with a small team under tight deadlines.

Additional Preferred Attributes

● Military experience strongly preferred
● Highly organized and possess excellent attention to detail
● An excellent communicator.
● Demonstrable understanding of soil engineering and fluid dynamics.

All bioMASON Employees Must:

● Consistently demonstrate honesty and integrity through personal example.
● Follow all safety policies and proactively engage in safety initiatives.
● Produce high quality work with a focus on first time right.
● Exhibit a passion and aptitude for learning with an analytical mindset.

We invite all qualified, interested candidates to send your resume to jobs@biomason.com with the heading “R&D Research Lead”. We offer competitive salary, a comprehensive benefits package and opportunity for advancement.

bioMASON Inc. takes affirmative actions as an equal opportunity employer to attract, promote, and retain the most fully qualified candidates without regard to race, creed, religion, color, citizenship status, national origin, sex, age, sexual orientation, predisposing genetic characteristics, genetic information, marital status, status as a domestic violence victim, arrest record, disability, military status, disabled veteran, recently separated veteran, Armed Forces Service Medal veteran, other protected veteran or other
characteristic as protected by law.
EOE M/F/D/V