

Staff/Senior Geologist

Darcy Solutions is seeking highly motivated and entrepreneurial **Staff/Senior Geologists** to join our growing company and help shape our future. These hands-on roles offer the opportunity to develop exciting new technology and simultaneously apply it across our expanding customer installations. Candidates must share our passion for making a meaningful contribution in reducing our collective carbon emissions footprint and have an affinity for collaborative problem-solving within our team, and with our industry partners and our customers. The roles will provide a mix of field geology, well design and construction, technology development, and interactions with customers and subcontractors.

With funding from the NSF, DOE, USDA, State of Minnesota, and climate investors, Darcy is pioneering a new groundwater-based, geothermal approach to sustainable heating and cooling for commercial and multi-family residential buildings. We're working closely with our industry partners to pioneer new and exciting, integrated ground loop-HVAC designs to help our customers meet increasingly aggressive carbon emissions goals and energy efficiency requirements while lowering costs. Our approach incorporates elements of water well and geothermal technology, resulting in a novel way to put groundwater to work.

The **Staff/Senior Geologist** positions offer candidates the chance to be part of an innovative company impacting greenhouse gas emissions in a collaborative work environment with opportunities for professional growth and development.

Responsibilities

- Prepare work plans and develop project-specific requirements for well design, sample collection, lithologic logging and geologic cross-section preparation, and well installation, development, testing, and commissioning
- Conduct desktop geologic analyses of potential project sites to inform system design
- Design and create well construction schematics to guide drilling and completion processes
- Lead the construction oversight of Darcy wells
- Develop project specifications for well materials, components, and installation methods
- Test equipment designs and procedures to inform future revisions
- Assist in developing project pricing and work with industry partners to manage costs and profitability
- Manage fieldwork in all weather conditions
- Travel to job sites and industry gatherings
- Contribute to (and/or lead) R&D activities to improve and expand upon Darcy's technology

Requirements

Staff Geologist:

- Bachelors or Masters in Geology, related engineering discipline, other related field, or relevant experience conducive to executing role responsibilities
- Minimum of 3 years of practical experience in geology, well design, installation, or related field preferred. Educational experience may substitute for professional experience.
- Creative problem-solving skills, and superb time-management and organizational skills
- Ability to understand and interpret geologic data presented as discussion, maps, lithographic logs, well construction records, or other formats
- Experience logging drill cuttings and ability to design a sampling protocol
- Knowledge of drilling and well construction methods and practices
- Understanding of geologic setting considerations on the design of a drilling program
- Ability to design a water well. Knowledge of material options, screen/filter-pack design criteria, pitless unit and surface completion considerations, and installation limitations
- Project Management
- Commitment to safety
- Ability to write and speak clearly
- Valid driver's license and a good driving record

Additional Requirements for Senior Geologist:

- Bachelors, Masters, or PhD in Geology, related engineering discipline, other related field, or relevant experience conducive to executing role responsibilities
- Minimum of 8 to 15 years of practical experience designing and installing high-capacity wells
- Team leadership experience
- Field oversight experience in a construction environment

Additional Skills

- Knowledge of well code requirements in at least one jurisdiction and ability to learn requirements in others
- Experience designing or installing well pumps, VFDs, and controls
- Experience programmatically working with modeling data for input/output generation and data analytics/visualization, such as Python, Matlab, COMSOL or MODFLOW.
- Registered as a Professional Geologist (or Professional Engineer) in a state or states where Darcy operates (or can become registered within 6 months of hire) preferred but not required

Diversity and Inclusion Statement

At Darcy Solutions, we believe diversity is key to driving innovation and fostering a dynamic workplace culture. We are committed to creating an inclusive environment where every employee feels valued, respected, and empowered to bring their authentic selves to work. We actively seek to recruit, develop, and retain a diverse workforce that reflects the communities we serve.

Who We Are

Darcy Solutions is an engineering design and cleantech startup. Our foundational technology was initially conceived by our co-founder and developed while he was a research scientist at the University of Minnesota following the completion of his PhD there. Since spinning out from the University in 2018, we have focused on refining our technology for commercial application and rapidly driving the growth of our company. We installed our first pilot system in 2019, and following the launch of our first commercial system in 2020, we are enjoying strong interest in our geothermal-HVAC system solutions. To support our growing customer project pipeline and the build-out of the business, we are looking forward to welcoming additional talent into our team. The potential for further technology development is tremendous, and it will further enhance our opportunity and mission to significantly reduce carbon emissions from heating and cooling.

Employment Type

The Staff/Senior Geologist positions are full-time opportunities. We offer a competitive benefits package with full-time employment.

Location

This position offers a hybrid work arrangement, blending in-office collaboration at our New Brighton, MN, office with the flexibility of remote work. It also includes field assignments at various project sites.

Please submit your resume and a brief cover letter to kathy.jennings@darcysolutions.com explaining your interest in Darcy Solutions and how your skills and experience align with the position.

Thank you for your interest in joining our team!