Electrical engineering

At Bently Nevada, we’re known for delivering high-quality industrial sensors, monitoring and diagnostic systems. As an electrical engineer, you’ll help create these products by applying high-speed digital design and analog front-end signal processing. Our embedded system designs include 32-bit microprocessors, field programmable gate arrays, digital signal processors, and analog-to-digital converters. In addition, we apply a variety of communication interfaces using both traditional industrial and proprietary protocols. Other essential areas include familiarity with design requirements, hazardous area certifications, electromagnetic compliance design techniques, and industrial applications of a wide variety of sensing technologies and solutions.

Computer engineering

Bently Nevada offers you numerous challenging opportunities to work in a real-time embedded system development. Typical systems employ real-time embedded operating systems and perform signal processing, data acquisition, event processing, data management, and communication functions. You’ll be responsible for all aspects of project development, ranging from system-level design and requirements analysis through code development and testing. Our firmware development is based on object-oriented techniques and associated languages (C++).

Mechanical engineering

The job scope is broad for our mechanical engineers, including packaging of industrial monitoring and diagnostic systems as well as sensor design and concurrent manufacturing process development. You’ll generate the overall form-factor of our products with an eye to product robustness, aesthetics, ergonomics, and other human/operator interface considerations. Challenges include packaging sensitive electronics for harsh industrial environments and balancing design constraints with manufacturing process requirements. Design approaches include integral electronics construction and mechanical packaging techniques (such as over-molded probe tips and potting encapsulation), injection molded and die cast component design, and sheet metal and machined part generation.

Software engineering

At Bently Nevada, our software engineers develop everything from n-tier networked data collection systems to artificial intelligence expert solutions. As part of our team, you’ll make use of the latest software design methodologies and programming languages as you work on design, implementation, and more. Your work will range from low-level coding to high-level GUI programming (C#, Visual Studio, Git, .NET).

System validation and test engineering

Our validation engineers have opportunities across new product development, existing product maintenance and support, and test engineering. You’ll take part in new application development including small-scale, short-cycle custom design tasks that build on existing standard product platforms. Part of the job includes developing automated tests to enhance product quality and reduce product development time. In this role, you’ll develop both system-level and detailed understanding of the embedded system to help ensure that our products meet the user’s requirements throughout the development cycle.

Manufacturing test engineering

Supporting the on-site production floor, our test engineers come from the computer science, mechanical engineering, and electrical engineering disciplines. Using the latest techniques and equipment, you’ll work within the product development process to create seamless automated test capabilities for emerging Bently Nevada products. Test capabilities exercise product capabilities at the board, module, and system levels, and interface with the company-wide business system to seamlessly record and document test results for both in-plant use and export to our customers.
Baker Hughes headquarters – Minden, Nevada

The beautiful Carson Valley—home to Minden, Gardnerville, and Genoa, Nevada—is known for its idyllic rural setting that offers a favorable climate, limitless outdoor recreation, quality schools, and a healthy tax environment. The Bently Nevada headquarters is in Minden, which is just 20 minutes east of Lake Tahoe, 15 minutes from Carson City, and 50 minutes south of Reno. The surrounding Douglas County is home to approximately 50,000 residents, and higher education opportunities are available at the University of Nevada–Reno and Western Nevada College.

Our advanced facility

Our 286,000-square-foot headquarters are home to business and engineering offices, an engineering laboratory research space, and a complete manufacturing facility. In addition to our Circuit Board Assembly Center of Excellence, Customer Application Center, and Remote Diagnostics Center, the manufacturing facility includes:

- Three surface-mount PWA lines
- Transducer manufacturing floor
- Plastics injection molding shop
- Complete machining and sheet metal shop
- Electrical testing and validation centers
- Electrical cabinet/project assembly shop
- Customer witness test floor
- Two NIST metrology labs

Beyond these high-tech features, the facility also includes employee amenities such as:

- A full-service cafeteria, serving breakfast and lunch, that has been recognized as a benchmark for other Baker Hughes operations for quality of service and healthy meal options
- An on-site Fitness Center, which provides an opportunity for employees, spouses and dependents to maintain a healthy lifestyle. The center houses several varieties of cardio and weightlifting equipment, including free weights. Employees also are encouraged to take advantage of the different fitness and yoga class offerings
- Bently Adventures—an outdoor recreational Co-Op—that offers outdoor equipment check-out for employees. Available equipment includes camping and backpacking gear, kayaks and kayaking equipment, and other fishing and water recreation equipment. Also featured are an assortment of bicycles, skis/snowboards, and other ski- and snow-related recreational equipment
- Our Health and Wellness Center, which houses a full-service office staffed with a Nurse Practitioner. The center offers health education and consultation, immunizations, laboratory tests, physical exams, health screenings, and occupational medicine services to employees

Abundant recreational possibilities

In addition to the amenities noted above, Baker Hughes is a corporate sponsor of the annual Death Ride, a 129-mile road bike race that consists of 15,000 feet of climbing and covers five mountain passes. And road biking is just one of the many tremendous outdoor recreation possibilities offered in the area. You’ll also find plenty of enthusiasts enjoying mountain biking, downhill and cross country skiing, snowshoeing, boating, water skiing, sailing, hiking, camping, rock climbing, off-road recreation, soaring, hang gliding, golf, and more. The Heavenly Ski resort is just a 15-minute drive from the valley, with Kirkwood resort and Mount Rose resort only 45 minutes away. Other local ski resorts include Squaw at Tahoe, Diamond Peak, and Squaw. The Lake Tahoe Basin and the Pine Nut mountains provide easy access to hundreds of miles of mountain biking trails. In addition to Lake Tahoe and the Tahoe Basin, numerous lakes and camping areas can be found within an hour’s drive.

Bently Nevada products

Based on a 50-year legacy of world-class technology in machinery protection of critical and essential assets, our Bently Nevada portfolio of Asset Condition Monitoring solutions helps our customers assess the mechanical condition of rotating equipment found in machinery-intensive industries such as oil and gas production, hydrocarbon processing, and electric power generation. Our products include sensors that span a variety of technologies, rack-based and portable monitoring systems, and specialized diagnostic systems. And, our software processes and presents the vast amount of data collected, while also offering high-end decision-making capabilities.

Sensors

Transducer systems include non-contacting eddy current-based proximity measurement systems and piezoelectric machine case-mounted acceleration and velocity sensors. Additional technologies include capacitive air gap sensors and industrial pressure sensors.

Monitoring systems

Monitoring systems interface to many different transducers to collect and process a variety of machinery operating parameters for protection and management applications. They range from traditional rack-based, hardwired, continuous online monitoring to periodic sampling, wireless mesh network-based systems.

Software

Software products interface to many monitoring systems, diagnostic systems, and external data sources. They process and present a vast amount of data to help users make informed decisions about the use of the machinery assets. Rule-based decision-support systems embody the knowledge our mechanical diagnostic expertise has built over our rich, industry-leading history. Visualizations with diagnostic HMI and plot and trend capabilities help customers analyze machine conditions and impending issues.

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