



Thought Leadership

Green Energy

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Field Applications Engineer



Interview
Green Energy

Opening

Tell me about Standex Electronics.

Standex Electronics is a leading manufacturer of electronic components with a strategic focus on devices that utilize magnetics as a primary operational function. The spectrum of products that we specialize in ranges from transformers and inductors to magnetically activated proximity devices such as reed switches and hall effect chips. These sensors are commonly packaged in-house as a higher-level assembly to function as high voltage isolation relays or as level- and proximity-sensing devices for a variety of OEMs.

What is your role? What impact do you make on the business?

My role within Standex Electronics is a field applications engineer specializing in magnetics and relays. My primary job function is to serve as a technical resource to help facilitate custom design activities on the front end of new projects. Additionally, I serve as a feedback loop to our engineering department so we can ensure our technology best serves the rapidly advancing power electronics marketplace.

What makes your company unique compared to competition (craftsmanship, care, partner/solve/deliver, problem solvers, full suite of solutions...)?

The most unique aspect about Standex is our Partner, Solve, Deliver culture. This can be best defined as our ability to take our base standard products and work directly with engineering to deliver customized products and support them throughout the product lifecycle. Standex adds the most value when engineering teams are fully engaged in complementary design activities to utilize each party's respective expertise to solve unique market challenges.

What stands out about Standex to you?

Standex's ability to be nimble while at the same time promising the quality and delivery that you would expect from a global leader. This is absolutely unique in our space.

Green Energy

How is the shift toward clean energy impacting product development at Standex?

As the demand for clean energy increases, the market is shifting towards electrification of all types. This means that the Grid is increasingly looking for ways to incorporate solar and wind power efficiently, which ultimately requires both storage and bidirectional energy flow. The automotive and heavy-vehicle markets are moving from internal combustion to hybrid and fully electric drivetrains. Big data is allowing companies to realize energy savings at scale by monitoring power consumption down at the machine level. Standex is ideally positioned to capitalize and work with customers to help take advantage of each of these global trends.

Tell me about some of the Standex eco-friendly and green products.

Almost the entirety of the Standex Electronics' product line can be utilized in one way or another to minimize energy consumption. High-frequency magnetics are key components in high-efficiency switch mode power supplies to reduce material content and dramatically improve efficiency of power transfer. Custom sensors are used to monitor power at the grid level and collect data that can then be used to optimize and reduce overall electricity production. Switches and sensors that utilize reed switches can operate passively, meaning they can provide valuable data while consuming little to no power.

Why are high frequency magnetics such a critical part of future infrastructure?

Simply put, magnetics are the single biggest driver of cost, weight and size in modern power conversion. Ensuring that you are at the leading edge of transformer and inductor development guarantees that you are well-positioned for the future.

What specifically is Standex investing in to ensure that you are in fact leaders in magnetics?

Standex approaches this question from several fronts. First, given our aforementioned product focus, we have an engineering resource pool that is difficult to match in our industry. As a 200MM+ division of a publicly traded company, we have the ability and inclination to invest in some of the most seasoned electrical and mechanical engineers in their fields today. Second, that same corporate backing provides us with state-of-the-art software and development capabilities such as ANSYS, which allows us to optimize complex magnetic designs. Finally, we continually seek to maintain relationships with leaders in our respective fields. This is maintained through long-term partnerships with industries and universities, as well as attending/participating in strategic conferences such as APEC.

You are encouraged to get in touch with Standex Electronics to discuss your market, product, and application needs with one of our Engineers today at www.standexelectronics.com!



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