



**Eta Wireless**  
a Murata Company

**muRata**  
INNOVATOR IN ELECTRONICS

## Company Overview

Eta Wireless is solving the fundamental problem of power consumption in mobile devices. Our *ETAdvanced* technology is based on the breakthrough research of two M.I.T. professors and first productized for base stations by Eta Devices (acquired by Nokia in 2016). Eta Wireless was acquired by Murata in September 2021 and is productizing *ETAdvanced* technology for mobile devices.

Following the acquisition, we continue to deliver *ETAdvanced* technology to major cellular platforms and mobile device OEMs. As a Murata company we are a multi-disciplinary, multi-national team of engineers with expertise in RF systems, power management, integrated circuits, digital design, software, algorithms, module design, and PA design. This wide range of expertise is rare in a single organization, but our cross-disciplinary collaboration is essential to deliver this disruptive digital supply modulation technology.

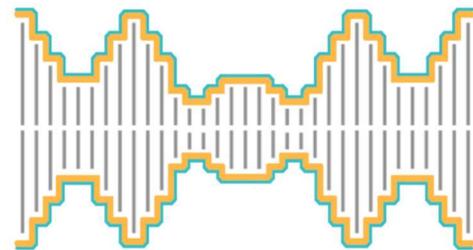


Eta Wireless' headquarters are at 1 Main St in Cambridge Massachusetts which helps us maintain close ties with our M.I.T. heritage. Our staff is a group of talented engineers who thrive on solving difficult challenges with creative solutions. We have a mix of industry and academic experience and more than 90% of our staff hold a Ph.D. or at least one M.S. degree. Our culture is one of continuous learning ongoing innovation.

## ETAdvanced Technology

Today's smartphones, tablets, wearables, and IOT devices include high-performance radios that dissipate most consumed energy as heat. The *ETAdvanced* technology uses an innovative power management IC to improve RF efficiency and reduce power consumption, as well as a digital signal processing technique to restore linearity. *ETAdvanced* leverages the strengths of RF, analog, and digital components to enable high-performance 5G with high efficiency.

Our solution requires innovation in several areas. We invent, design, and manufacture power management ICs and modules in volume. We develop and prototype digital signal processing algorithms (e.g. digital pre-distortion). We deliver custom RTL packages implementing these algorithms for integration with a customer's transceiver or modem, and support the customer throughout the design-in. We architect and customize software and firmware for internal and customer use to enable a robust platform solution. We measure comprehensive RF system performance to prove performance of the technology over the most challenging scenarios and with industry-leading RF PAMiD and PADs. As Eta Wireless we are solving a major challenge of 5G with by reimagining the RF front end.





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## PMIC Staff Design Engineer

The PMIC Staff Design Engineer is a senior member of the PMIC design team focused with expertise in magnetic and/or capacitive DCDC converters. This engineer is responsible for architecture, implementation, and final performance of one major power management block in the team IC designs, and works to create, document, and file new IP. The successful candidate will have a strong track record for on-time tapeout and work well in a dynamic team environment.

### Objective

- Design of analog and power management integrated circuit blocks and converters
- Ownership of top-level power management blocks
- Mentor and review other designers' work
- Interact closely with layout engineering team
- Contribute innovative circuits, topologies, and solutions as part of the design team

### Experience

- MSEE or PhD with deep understanding of inductive and/or capacitive DCDC converters
- Industry experience in IC design of power management solutions with production parts
- Designing top-level magnetic and/or capacitive DCDC converter blocks
- Power management design experience in 180nm BiCMOS or similar
- Solid understanding of Cadence tools and use Clisoft revision control
- Highly desirable: experience maintaining Cadence and Linux environment

## Compensation and Benefits

Eta Wireless offers an industry-leading compensation and benefits with 401k matching, four weeks of paid vacation, flexible work arrangements where possible, medical/dental/vision/legal/life/disability insurance, wellness benefits, and more.

## Contact Information

Qualified candidates are encouraged to get in touch at [careers@etawireless.com](mailto:careers@etawireless.com) for more information.