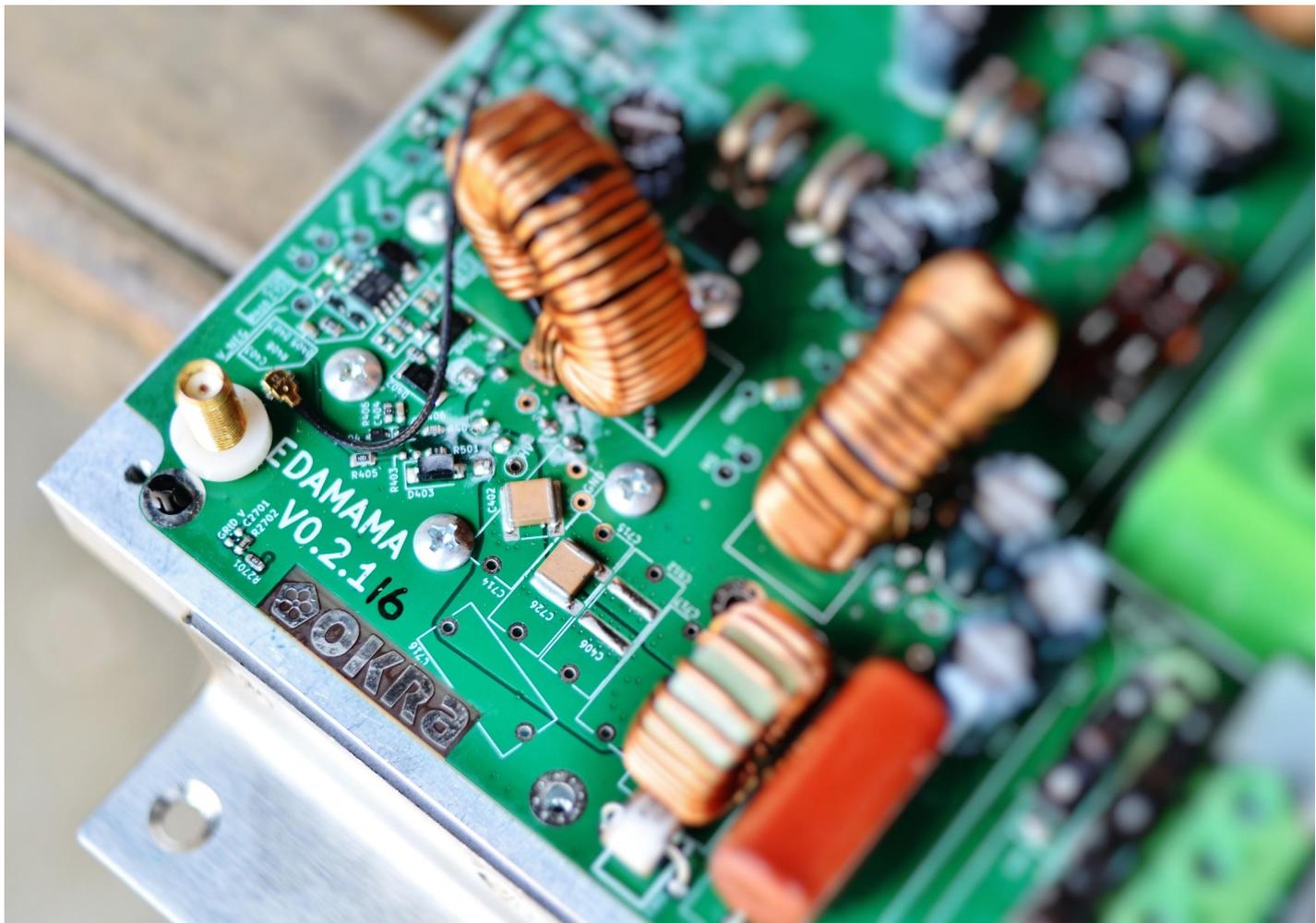


QA Engineer

- Contract type: Full-time
- Start date: ASAP
- Location: Shenzhen, China

What's Okra? We're an IoT startup company bringing energy access to the 800 million people who don't have power. In 2019 we made the [Cleantech 50 Companies to watch](#), we [won the 2019 Techcrunch Hardware Battlefield](#) in Shenzhen, won the [2019 IEEE Empower A Billion Lives](#) competition and most recently won the [Cleantech company to make the most impact by 2030](#).





Opportunity

Okra is looking for a **QA Engineer** to join our team full-time in Shenzhen, China.

Product reliability is a critical factor that will determine Okra's success in the coming years. The successful applicant will play a crucial role in securing confidence in the reliability of our electronics products by designing and implementing rigorous testing plans and equipment with a wide range of test coverage.

The product of focus is Okra's flagship mesh-grid controller: the "Pod" (see above) - a plug-&-play IoT device that enables distributed solar panels and batteries to be interconnected into smart modular mesh-grids.

This role will primarily involve designing, programming and configuring various test machinery, as well as supervising production and certification testing activities in cooperation with our China-based contract manufacturers. The vast majority of this work will be done in collaboration with the manufacturing, hardware and firmware teams which are spread between China, Malaysia and Australia.

The successful applicant will also have the opportunity to broaden their professional skill set by contributing to other projects within the company.

What you can expect to work on:

- Designing, programming, configuring and running automated test equipment for Okra's electronics products - to be used in both our development labs and at manufacturing premises
- Working closely with Okra's development and manufacturing teams to create test plans for end-of-line (EOL) functional tests, firmware regression testing, stress tests, burn-in tests and highly accelerated life-cycle testing (HALT).
- Establishing a new testing lab in Shenzhen to install and run Okra's extended reliability test suite



- Performing root cause analysis on hardware and firmware issues that arise as a result of our large suite of testing
 - Being present at manufacturing premises during production runs to train and supervise workers that will operate the automated test equipment
 - Ensuring Okra's electronic products meet functional, reliability and regulatory requirements
 - Supporting and maintaining Okra's existing test equipment
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What we're looking for: **you can still apply if you don't fit all the requirements.*

- Speaking Mandarin fluently or above HSK level 5
- 3+ years with designing / programming / configuring automated test equipment for electronics products
- Experience embedded systems development using Python to control equipment such PSUs, Eloads and Relays
- Expertise in designing test plans to test all aspects of electronic systems, including function, burn-in, stress and system tests.
- Comfortable with remote working and debugging in cooperation with hardware and firmware engineers abroad
- A university degree in engineering or science, or equivalent industry experience
- Open-mindedness, willingness to learn and an excitement for solving worldly problems by experimenting, sharing knowledge and letting the best ideas win
- A strong understanding of power circuit theory and digital electronics



We also value these skills: *you can still apply if you don't fit all the requirements.

- Experience developing firmware in C/C++, in particular STM32 family of MCUs
 - Experience developing firmware and software in a remote team environment
 - Taking electronics products from prototype to high volume in China
 - Product development using Agile methodologies
 - PCB and PCBA design, preferably in KiCad
 - Knowledge of interfaces such as I2C, UART, SPI, RS232
 - Version control systems such as Git/SVN
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Benefits

- Flexible work location and working hours
- Professional career progression and opportunity to take on leadership responsibilities
- All expenses paid for national and international team trips (yearly team retreats, hackathons, etc.)
- Cover for work travel, health insurance, sick leave and equipment (i.e. laptops)
- A great work culture in fast paced startup environment with multinational staff
- The ability to take on additional relevant education while working
- Mentorship from our investors (Schneider Electric, Greenway Grid Global) and a range of experienced leaders and changemakers in our network.



Internal Liaisons

- Hardware engineering colleagues
- Firmware engineering colleagues
- Manufacturing colleagues

External liaisons

- Okra's contract manufacturer
 - Okra's various supply chain partners
 - Other relevant Chinese personnel that can assist you in your role
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More About Okra

1 billion people around the world still don't have access to clean and reliable electricity. Okra has financial backing from investors including Schneider Electric, Smart Axiata, Greenway Global Grid. Our mission is to use IoT and big data to provide technology that will enable rapid electrification of the 1 billion people who don't have electricity. We are expecting to continue our trajectory of being a high growth company over the next few years, so this is an exciting time for everyone!

#PowerToThePeople

Not for you?

Check out these other [job openings](#) that may fit your profile

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