



SENIOR EMBEDDED SOFTWARE ENGINEER

Resonant Sciences is presently recruiting engineers with education and experience in embedded Linux software programming in concert with custom electronics using modern FPGA/ARM SoCs.

ESSENTIAL FUNCTIONS:

- Work with engineers experienced in FPGA development, circuit board design, and RF design and testing to migrate capabilities from a lab environment to deliverable custom products.
- Work closely with FPGA engineers to interface to Linux software running on an ARM processor using the Xilinx workflow (Petalinux, Yocto)
- Interface with external peripherals (ADCs, DACs, various sensors) using SPI, I2C, JESD204, LVDS, GPIO, and other standard interfaces.
- Develop Linux software drivers to communicate with custom hardware (ex. Xilinx SoC DMA and AXI interfaces)
- Proficiently find and implement solutions to interface issues between hardware and software.
- Analyze design risks, mitigate risks when possible, and report concerns to supervisor.
- Work efficiently in an environment without the need for regular, direct oversight.

QUALIFICATIONS:

- BS Degree in Software Engineering, Computer Engineering, or Computer Science with at least five years' experience, or MS Degree in Software Engineering, Computer Engineering, or Computer Science with two years' experience with an emphasis on RF Hardware Design.
- Must be eligible to obtain and/or maintain a Secret Clearance. Active clearance is preferred.
- Experience with C/C++, embedded Linux systems, and driver development is required.
- Experience specifically with Petalinux, Yocto, and Xilinx Zynq processors is preferred.

WHO ARE WE?

Resonant Sciences is a world-class research and development firm located in Dayton, Ohio focused on developing and transitioning innovative technologies and solutions to developmental and operational platforms. Our areas of expertise include FSS radome and antenna design and fabrication, custom electronic solutions, and RF measurements of materials, antennas, radomes, and subsystems. Our technical staff are nationally recognized for contributions to their respective areas of specialization.



A career at Resonant Sciences means that you will be involved in the complete development life cycle, seeing your design evolve from mission requirements to technical specifications into a finished product.

WHAT'S IN IT FOR YOU?

- Become part of a high-tech work environment that is highly impactful, exciting and collaborative.
- Flexible working environment that enables our employees to balance work and personal life.
- A comprehensive benefits package that includes medical, dental, vision and prescription benefits with extremely low employee cost share for you and your eligible dependents.
- A well-funded Health Spending Account with standard account fees paid by Resonant Sciences.
- 10 Federal Holidays (6 Standard, 4 Floating).
- A flexible Paid Time Off plan for employees.
- A generous retirement plan.