

Opportunity Title: ORNL MantaPoole Technologies Engineer Post-Master's

Research Associate

Opportunity Reference Code: ORNL20-05-EESD

Organization Oak Ridge National Laboratory (ORNL)

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Description Oak Ridge National Laboratory (ORNL) is the largest U.S. Department of Energy (DOE) science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy, environment, and security.

MantaPoole Technologies is a light field / 3D-imaging startup within the Innovation Crossroads program at ORNL. We are seeking a Post-Master's Research Associate that will focus on the development and design of the embedded systems in the advanced light field / 3D-camera we are developing. The Research Associate will help design the embedded system electronics, program a Field Programmable Gate Arrays (FPGA), and design a device driver.


Major Duties and Responsibilities:

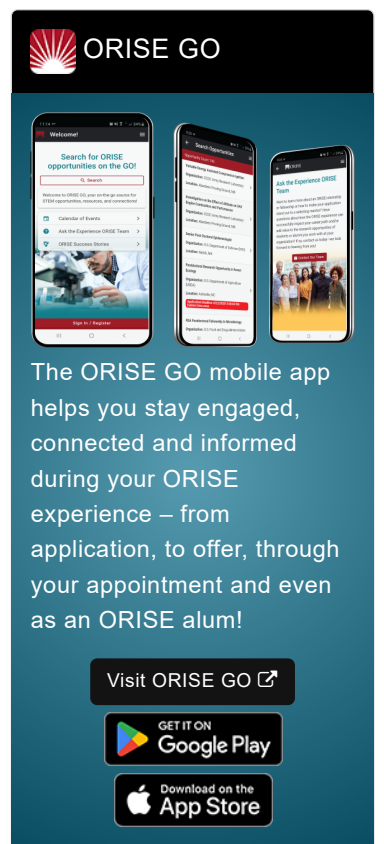
- Demonstrated ability to implement digital design on a FPGA using a hardware description language.
- Understanding of programming environments like Windows and Linux.
- Ability to implement and understand Simulation Program with Integrated Circuit Emphasis (SPICE) simulations.
- Experience in utilizing programming languages like C, C++, Python.
- Understanding of device drivers.
- Competence in PCB Design and Layout.

Qualifications Candidates should have completed or currently be pursuing a master's degree.


Living in East Tennessee: While the opportunity to work at ORNL is an amazing experience in itself, it's easy to overlook everything else East Tennessee has to offer if you haven't had the opportunity to spend time here. From spending your weekends downtown at Knoxville's farmers market, the Rhythm n' Blooms Music Festival, or the Dogwood Arts Festival, to some of the best hiking, kayaking, and camping in the U.S., East Tennessee has something to offer everyone.


The ORNL Post-Master's Research Associate Program is administered by Oak Ridge Associated Universities through its contract with DOE to manage the Oak Ridge Institute for Science and Education (ORISE).


- Eligibility**
- **Citizenship:** U.S. Citizen Only
- Requirements**
- **Degree:** Master's Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Engineering** ([6](#) )
 - **Age:** Must be 18 years of age



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required employment notices.