Pacific Northwest National Laboratory’s (PNNL) Electromagnetic Sensing team in the Disruptive Technology group has designed, implemented, and delivered numerous microwave and millimeter-wave imaging systems for a wide variety of U.S. military and government clients for national security applications.

First-of-a-kind, high-resolution, wideband 3D radar imaging systems have been designed and fabricated for applications ranging from 3D radar cross section measurements to personnel screening for hidden weapons. The concealed weapon detection work performed by this team has culminated in the successful technology transfer of the 3D cylindrical millimeter-wave imaging technology. This technology has been commercialized by L3 Communications and is in widespread use at domestic and international airports.

The selected candidate will be ready to join a multidisciplinary team focused on developing and analyzing all elements of new high-performance radar imaging systems, as well as other radio frequency (RF), microwave, and millimeter-wave systems. If you have the desire to help create the future of RF/microwave technology and perform work that has a direct impact on our nation and the world, apply today!

For a detailed description of this opportunity, please visit jobs.pnnl.gov and reference jobs 312167 and 312168.
RF/Microwave Engineer, Disruptive Technology Group

PNNL is seeking an RF/microwave engineer who will lead engineering teams in the development of RF, microwave, and millimeter-wave systems, sub-systems, and components. The candidate will research, develop, design, and test devices and systems including antennas, microwave circuits, and radar transceivers.

The preferred candidate will possess the ability to give guidance on new assignments, make selections on technical alternatives, and independently complete complex assignments. They will lead and contribute to proposals and report results on time and on budget.

In addition, the candidate will:

- Design, simulate, and test RF/microwave front-end systems and sub-systems;
- Derive specifications for RF/microwave systems and sub-systems;
- Develop RF/microwave circuits and components, including transceivers and antennas;
- Simulate designs using CAE software such as Ansys HFSS or similar tools;
- Characterize system performance using network analyzers, spectrum analyzers, and related test equipment;
- Understand and analyze electromagnetic propagation and antenna systems; and
- Participate in technical design reviews and element/system-level activities;
- Have ability obtain security clearance.

The ideal candidate will possess a technical background with a degree in electrical engineering, RF engineering, microwave engineering, or a related field, with a minimum of five years of relevant experience. Fewer years of professional experience will be acceptable with an advanced degree.

ABOUT PNNL

Pacific Northwest National Laboratory draws on signature capabilities in chemistry, Earth sciences, and data analytics to advance scientific discovery and create solutions to the nation’s toughest challenges in energy resiliency and national security.

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