### **Solar Cell Device Engineer**

# Job Description:

MicroLink Devices is seeking a Solar Cell Device Engineer to assist in the design and development of photovoltaic devices suitable for space, UAV, and terrestrial applications. MicroLink's current device technologies are focused on ultra-thin, GaAs-based multi-junction solar cells fabricated using an epitaxial lift-off (ELO) technology. The successful candidate will be responsible for:

- 1. Developing novel solar cell designs and technologies for improved performance,
- 2. Characterizing and qualifying cell performance to meet customer requirements, and
- 3. Transitioning cell development from laboratory demonstration to production scale.

Prior experience in the design and development of solar cells or related optoelectronic components is required.

# **Duties and Responsibilities:**

- Conduct photovoltaic device development activities as part of the Engineering team.
- Develop multi-junction solar cell design concepts and structures to provide performance improvements over existing technologies.
- Perform device and materials characterization on multi-junction devices to assess cell performance and identify paths for improvement.
- Participate in process development in collaboration with wafer fabrication team.
- Evaluate and improve existing methods for solar cell test and characterization.
- Evaluate and identify new tools required for characterization of bare cells and packaged cell assemblies.
- Perform supporting role in sustaining operation of advanced processing and characterization tools.
- Assist in transfer of new products and processes to manufacturing.
- Assist in design of new products and technology platforms.
- Assist in development of new processes for packaging wafer-scale, ultra-thin solar cells in lightweight, flexible assemblies.
- Contribute to report and proposal preparation as required.

#### Education and qualification:

- Ph.D. in Physics, Electrical Engineering, or related field is desired
- Experience in semiconductor device design and process development
- Must be able to read, speak, write, and understand the English language

### Additional requirements:

- Strong understanding of semiconductor devices and device physics
- Capable of working on multiple tasks and projects
- Possess excellent verbal and written communication skills, strong analytical and problem solving abilities, and organizational skills
- Highly detail oriented and self motivated
- Able to work with minimum supervision
- Job offer will be contingent upon completing a successful limited background investigation.
- Must be eligible to work in the US, no sponsorship provided for this position.

#### **About MicroLink Devices**

MicroLink Devices is an exciting, dynamic new business specializing in the design, development and manufacture of solar cells for spacecraft, aircraft, and terrestrial applications. The company possesses a core competence in the design and growth of high-performance semiconductor materials, which it has leveraged to enter the solar cell market in the last few years. MicroLink's staff possesses more than 100 years of combined experience in world-class, high-volume semiconductor manufacturing companies. With a limited number of firms meeting the increasing demand for high performance solar cells and semiconductors, MicroLink's outlook is very promising.

As a young company with a bright future, the opportunities for employees are unrestricted. The philosophy of MicroLink Devices is to allow every employee the opportunity to mature into a position that is rewarding both to the individual and to the company. At MicroLink Devices, Inc., you will gain a wealth of experience.

Located in the northern Chicago suburbs, MicroLink has an attractive and pleasant working environment. The company offers a full package of benefits, including paid vacation, health insurance, dental insurance, 401(k) with employer match, and disability insurance.