

# **Postdoctoral Research Associate in Image Science and Machine Vision Group**

## **Measurement Science and Systems Engineering Division (MSSE)**

### **Oak Ridge National Laboratory Oak Ridge, Tennessee**

ORNL08-74-MSSE

#### **Project Description:**

The Image Science and Machine Vision (ISMV) Group within the Engineering Science and Technology Division (ESTD) of Oak Ridge National Laboratory (ORNL) has an immediate opening for a postdoctoral researcher in the field of infrared venous imaging. We seek an individual who is an expert in IR venous imaging and structured lighting, who also has experience in hardware development, modeling, and configuring and conducting laboratory experiments. A strong publication track record, including recognition through awards at conferences and past history of intellectual property in this area, is highly desired.

**Responsibilities & Qualifications** The successful candidate will provide research and development on an infrared venous imaging technology and modeling program under development at ORNL.

#### **Major Duties and Responsibilities:**

- Provides technical and analytical support for the development of an infrared venous imaging system and modeling software
- Accountable for compliance with ORNL environment, safety, health, and quality program requirements.
- Maintains a strong commitment to the implementation and perpetuation of ORNL values and ethics.

#### **Qualifications Required:**

- Requires a Ph.D. degree in electrical engineering, computer engineering, or computer science with a focus on infrared venous imaging, structured lighting, and modeling.
- Demonstrated initiative and an innovative approach to solving problems are required.
- Strong written and verbal communication skills are mandatory. The candidate must be able to present and defend work results frequently to ORNL staff, sponsors and in other technical forums.
- Strong programming skills and familiarity with multithreading software is desired.
- Skills in project engineering and project management are required.
- The candidate needs to demonstrate initiative to quickly learn and provide creative approaches to performing technical projects.
- Multilingual capabilities are a plus; past experience at national laboratories is highly desired as well.

Applicants cannot have received the most recent degree more than five years prior to the date of application. Expected duration of these appointments is one year with the possibility of an extension. Interested candidates need to apply as soon as possible. For technical questions regarding the position, please contact Thomas P. Karnowski [karnowskitp@ornl.gov](mailto:karnowskitp@ornl.gov). Please reference the position title and number, when corresponding about this position. This appointment is offered through the ORNL Postdoctoral Research Associates Program (<http://www.ornl.gov/orise/edu/ornl/ornl-pd/ornlpdoc.htm>).

**How to Apply:**

Qualified applicants may apply online at [https://www2.ornl.gov/ORNL\\_POST/](https://www2.ornl.gov/ORNL_POST/). All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When corresponding to ORNL regarding this position, please reference the position title and number.

This appointment is offered through the ORNL Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.