

 Los Alamos, NM job title, keywords

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## Computer Vision and Machine Learning Postdoc in Los Alamos, New Mexico

Vacancy Name: IRC75525

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### Description

Job Title Computer Vision and Machine Learning Postdoc

Location Los Alamos, NM, US

Organization Name CCS-3/Information Sciences

Minimum Salary

Maximum Salary

### What You Will Do

The Information Sciences Group (CCS-3) at Los Alamos National Laboratory (LANL) has an opening for an outstanding postdoctoral research associate in the areas of computer vision and machine learning for technical images. Computer vision, especially when combined with machine learning methods, has dramatically improved the ability to detect objects in images and semantically segment images for scene understanding. However, these advances have not yet

### Benefits

- Exceptional **health benefits**
- Robust **relocation** package for eligible employees
- **Award** winning **401k** with 9.5% company contribution
- Flexible **work schedules** allow for work-life balance
- Generous **tuition assistance** and in-state tuition at UC and TAMU
- Free, on-site **wellness** center with gym, fitness classes and nutrition experts
- Paid **maternity** and parental leave

### Life At the Lab

- Northern **New Mexico** has an abundance of wildlife, culture, and adventures
- 58 Miles of **hiking trails** in around and Los Alamos

automated the understanding of information contained in hand-drawn figures, technical diagrams, mathematical equations, data plots, and other images conveying technical information, because those types of images contain much less information compared with natural images.

A successful candidate will engage in two or more of the following focus areas:

- 1) Develop computer vision algorithms for extracting information from drawings, technical diagrams and scientific plots.
- 2) Develop computer vision algorithms for shape matching across a wide variety of image types including photographs, drawings, diagrams, scanned historic documents, etc.
- 3) Develop computer vision and machine learning algorithms for image analysis (classification, object detection, segmentation, image retrieval) that require very little or no labeled training data (zero-shot, one-shot, and transfer learning; or domain adaptation); and allow end-users to quickly customize machine learning models to novel problems (model selection, interactive learning, and workflow automation).

## **What You Need**

### **Minimum Job Requirements:**

- Research-level expertise in one or more of the above focus areas

- **Los Alamos County** rated #3 Best Counties to Live In by USA Today
- Six **ski resorts** located within 100 miles of the lab
- Award winning family friendly culture

- Demonstrated ability to publish research in top peer-reviewed journals or conference proceedings
- Strong programming skills

**Desired Skills:**

- Research-level expertise in two or more of the above focus areas
- Research experience in using topological graphs for image analysis
- Demonstrated ability to work in interdisciplinary project teams and learn about other fields
- Active Q clearance, or alternatively the ability to obtain a Q clearance

**Education:**

Ph.D. in computer science, computer vision, machine learning, imaging science, mathematics, electrical engineering, statistics, data science, or a closely related discipline completed within the past five years or to be completed soon prior to employment.

**Notes to Applicants:**

In addition to submitting a CV, applicants must include a cover letter describing their research interests.

Postdoctoral appointments are for two years, with the possibility of a third year extension.

**Additional Details:**

Position does not require a security clearance. Selected candidates will be subject to drug testing and other pre-employment background checks.

**New-Employment Drug Test:** The Laboratory requires successful applicants to complete a new-employment drug test and maintains a substance abuse policy that includes random drug testing.

Candidates may be considered for a Director's Postdoc Fellowship and outstanding candidates may be considered for the prestigious Richard P. Feynman, Darleane Christian Hoffman, J. Robert Oppenheimer, or Frederick Reines Distinguished Postdoc Fellowships.

For general information go to [Postdoc Program](#) .

**Equal Opportunity:**

**Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the**

**limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to [applyhelp@lanl.gov](mailto:applyhelp@lanl.gov) or call 1-505-665-4444 option 1.**

### **Where You Will Work**

**Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.**

### **Appointment Type Postdoc**

**Postdoc**

### **Contact Details**

**Contact Name**

**Email**

**Work Telephone**

**Req ID: IRC75525**

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Graduate

Student Association

The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process.

To request a disability accommodation, email [applyhelp@lanl.gov](mailto:applyhelp@lanl.gov) or call (505) 665-4444, option 1.

[EOE including Disability/Protected Veterans](#)



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