

## PhD Research Scientist- Computer Vision

**Job:** Engineering

**Primary Location:** Americas-United States-Massachusetts-Boston

**Employee Status:** Regular

### Description:

Rakuten, Inc. is the largest commerce company in Japan, and third largest commerce marketplace worldwide. We seek to empower merchants to deliver Omotenashi, a hospitality mindset, which helps sellers create lasting relationships with customers. The Japanese word Rakuten means optimism. Along with the global marketplaces, Rakuten supports an ever-expanding list of acquisitions and strategic investments in disruptive industries and growing markets.

Rakuten Institute of Technology (RIT) <http://rit.rakuten.co.jp/> is the corporate R&D department of the Rakuten group and is responsible for leading strategic technological progress. RIT's targets vary from basic technologies to innovative new services. RIT consists of highly motivated research scientists located in Tokyo, NYC, Paris, and Boston who are driven by strong curiosity and interests.

### The Role:

RIT-Boston is calling for Computer Vision research scientists. As a CV research scientist, you will lead a research project to conduct research in a small team, collaborating on global projects in a friendly work environment. Some of the research projects can involve:

- Research, design, implement and evaluate novel computer vision algorithms.
- Provide solid solutions for various visual understanding tasks.
- Discriminative learning for supervised and unsupervised problems.
- General image processing (such as classification, detection, and semantics segmentation) for various business applications.

### Responsibilities:

- Propose visions for services and technology models.
- Work on large-scale datasets, focusing on creating scalable and accurate computer vision systems in versatile application fields.
- Create prototypes that can be commercialized in 1 to 3 years.
- Create core components for our services (engines, frameworks, and libraries).
- Publish your research and file patents.
- Collaborate with teams spread all over the world.

### Qualifications:

- PhD graduate or a PhD student in computer science or a related field.
- Familiar with cutting edge deep-learning algorithms.
- Experience in one or more deep learning frameworks: Caffe, Torch, MxNet, Tensorflow, etc.
- Research experience in computer vision fields (classification, regression, clustering, segmentation, detection and tracking).
- Programming experience in one or more of the following: C, C++, Python, Java.
- Contributions to research communities and/or efforts, including publishing papers in machine learning venues.

### Preferred Qualifications:

- Background in big-data computation, such as, Hadoop, Hive, etc.
- Experience with AWS platform.
- Experience with GPU programming.

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