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## **Job Description**

### **Research Scientist – Computational Photography/Video Algorithms - 752420**

#### **Description**

**Job Description:** Initiates the design, development, execution and implementation of scientific research projects to fuel Intel's growth in the areas of computing, communication, technology and manufacturing and new business opportunity. Investigates the feasibility of applying scientific principles and concepts to potential inventions and products typically 7+ years prior to landing on a product roadmap. Plans and executes laboratory research. Maintains substantial knowledge of state-of-the-art principles and theories, and contributes to scientific literature and conferences. May participate in development of intellectual property. May coordinate interdepartmental activities and research efforts. Typically holds a PhD.

The successful candidate will be part of one of several ambitious research initiatives underway at Intel and will contribute from early research phases through to prototype and production. The candidate is expected to be a highly self-motivated individual with effective communication skills and ability to work in a dynamic work environment with colleagues with diverse backgrounds. The candidate must show passion not just for conducting research but also for turning ideas into reality and impacting Intel and its customers.

The successful candidate will perform research and development in computational photography and computational video algorithms for novel imaging systems. Such systems can include arrays of cameras, plenoptic cameras, and camera systems that actively scan the environment. The candidate should have deep knowledge in aspects of computer vision that are foundations of computational photography and video, along with familiarity with current research in computational photography/video algorithms. The candidate also needs a background in image processing and imaging systems.

Experience with real-time algorithms and implementation is strongly desired. We seek a proven track record in researching and developing novel computational photography/video algorithms and applications. The successful candidate will propose, develop, test, evaluate and deliver

optimized computational photography/video algorithms that drive future Intel platforms.

The ideal candidate will also demonstrate the following:

- \* Positive, "can do" attitude, infectious enthusiasm and confidence
- \* Willingness to take calculated risks and stretch to achieve ambitious goals
- \* Strong analytical and logical problem-solving skills paired with wild creativity
- \* Excellent written/verbal communication and presentation skills

## **Qualifications**

Intel Labs is seeking a motivated researcher to join our Systems and Software Research (SSR) Lab. We are currently accepting applications for a computational photography/video algorithms researcher. This is a full-time position. Compensation is competitive and will be commensurate with experience. Candidates must be willing to relocate to the Santa Clara, California area for this position.

You must possess the below minimum qualifications to be initially considered for this position. Preferred qualifications are in addition to the minimum requirements and are considered a plus factor in identifying top candidates. Experience listed below would be obtained through a combination of your school work/ classes/ research and/or relevant previous job and/or internship experiences.

### **Minimum Qualifications:**

- \* Ph.D. in Electrical Engineering, Computer Science or a related field
- \* Demonstrated knowledge and fluency in C/C++
- \* 1+ years background in computer vision algorithms and computational photography and video
- \* 1+ years background in image processing and imaging systems
- \* Proven track record of developing novel computational photography/video algorithms and applications

### **Preferred qualifications:**

- \* 1+ years experience in real-time algorithms
- \* Familiarity with development environments and tools in Microsoft Windows and/or Linux including OpenCV.

**Job Category:** Engineering

**Primary Location:** USA-California, Santa Clara

**Full/Part Time:** Full Time

**Job Type:** College Graduate

**Regular/Temporary:** Regular

**Posting Date:** Jan 20, 2015

**Apply Before:** Apr 20, 2015

**Business Group:** Intel Labs is the company's world-class, industry leading research organization, responsible for driving Intel's technology pipeline and creating new opportunities. The mission of Intel Labs is to deliver breakthrough technologies to fuel Intel's growth. This includes identifying and exploring compelling new technologies and high risk opportunities ahead of business unit investment and demonstrating first-to-market technologies and innovative new usages for computing technology. Intel Labs engages the leading thinkers in academia and industry in addition to partnering closely with Intel business units.

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