

Research Scientist/Engineer - Visual Computing

About the Bosch Research and Technology Center

The Bosch Research and Technology Center North America (www.boschresearch.com) with offices in Palo Alto, California, Pittsburgh, Pennsylvania and Cambridge, Massachusetts is part of the global Bosch Group (www.bosch.com), a company with over 50 billion euro revenue, 300,000 people worldwide, a very diverse product portfolio, and a history of over 125 years. The Research and Technology Center North America (RTC-NA) is committed to providing technologies and system solutions for various Bosch business fields primarily in the areas of sensors, circuit design, visual computing, natural language understanding, web technologies, data mining, car infotainment, wireless solutions, energy materials and technologies, complex simulations, software engineering, and autonomous systems such as robotics. In all areas we work in close collaboration with our partners at leading US universities, leading-edge industry partners, and other worldwide Bosch research, development, and marketing units.

About Visual Computing at RTC-NA

The Visual Computing team of Bosch Research in Palo Alto, CA is responsible for shaping the future user experience of Bosch products by developing cutting-edge technologies in the fields of computer graphics, scientific visualization, computer vision, and HCI. We focus on solutions to hard challenges in using visuals and other modes of communication for natural user interaction. We actively collaborate with leading groups in academia and industry to promote research ideas, publish world-leading research findings in conferences / journals and contribute to Bosch's patent portfolios. We also work with internal partners at various Bosch business units to transfer our ideas and solutions into future products.

Web: <http://www.bosch.us/content/language1/html/9667.htm>

To augment the Visual Computing team in our Palo Alto office we are seeking enthusiastic and creative experts with a strong desire to drive technology development in this domain towards viable solutions to growing market needs.

Type: Full-time position

Work Location: Palo Alto

Start Date: as soon as possible

Tasks & Responsibilities:

- Conduct advanced research and engineering on visual computing technologies and systems, including real-time rendering, real-time computer vision and image processing systems, vision graphics, and scientific visualization, particularly for Bosch application fields.

- Together with an international team of experts, drive the design and implementation of new and innovative features that improve the user experience of next generation Bosch products
- Actively promote ideas from visual computing research to product development to enable future Bosch business

Required qualification:

- M.Sc. or Ph.D. (or equiv.) in Computer Graphics, Computer Vision, Visualization, HCI or related fields
- Strong coding skills, hands-on experience and in-depth knowledge of visual computing technologies in at least two of the following fields: real-time 3D rendering, scientific visualization, image/video-based rendering and modeling, character and crowd animation and simulation, and real-time computer vision systems.
- 3+ years of developing and prototyping experience in large, high-quality software systems
- Passion for quality products, software development principles and best practices
- Highly proficient with programming languages and environments including C, C++, JavaScript, OpenGL, HTML5, WebGL, OpenCV, scripting languages (e.g., Perl, Python), Windows, Linux
- Strong research and problem solving skills
- Excellent communication, teamwork and technical writing skills

Bonus points for:

- Experience in mobile and web-based platform development
- Familiar with different kinds of graphics tools
- Industrial R&D experience on real application platforms
- Excellent publication record in leading visual computing venues (e.g., SIGGRAPH/ACM TOG, I3D, IEEE TVCG, VIS, PAMI, CVPR, ECCV)

Contact:

Dr. Liu Ren, liu.ren@us.bosch.com