

ROBOTIC VISION SCIENTIST

Dept: Software Group

Classification: Full Time, Exempt

Location: Detroit, MI

Contact:

Linda Klieforth

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Braintech currently is searching for a qualified individual to fill the position we have open for Robotic Vision Scientist in our Pontiac, MI office. A summary of the job responsibilities and qualifications are listed below.

Job Summary/Primary Purpose

The Braintech Robotic Vision Scientist conducts applied research in the areas of mobile robotics, computer vision or machine learning.

Job Duties and Responsibilities

1. Perform functions associated with research, development and implementation of computer vision and image processing.
2. Define, develop and evaluate or improve computer vision methods to enhance system functionality through analysis/simulation/experimentation.
3. Support R&D customer briefings.
4. Development of reports and oral presentations for corporate and sponsor audiences.
5. Present research at scientific/engineering conferences and publish in technical journals.

Job Requirements

Education: PhD in EE, CS or related discipline strongly preferred.
Required Experience: 5+ years relevant experience. Strong knowledge of research development: design, development and testing of advanced algorithms for; local image features, pattern recognition, image registration, image segmentation, stereo, calibration, 3D reconstruction and structure from motion. Strong mathematical skills: linear algebra, numerical methods, probabilistic analyses. Experience with visual sensors such as: cameras, laser based sensors, ultra-sound. Evidence of hands-on approach to conducting research. Software code experience in C/C++. A plus for Matlab, Perl, Python.

Job Knowledge:

Software development experience in *nix-like environments (gcc/make etc) and real time development.

Fundamental understanding of computer vision and industrial robotic issues including 3D vision, single and multi view geometry, calibration, sensor fusion, localization uncertainty and platform modeling. Experience in research and development of intelligent systems. Experience in computer vision, pattern match, calibration and visual analytics. Ability to design and implement algorithms for computer vision and industrial robotics. Ability to conduct experimental robotic research and design. Excellent oral, written and presentation skills. Ability to conduct independent assessments of technologies and commercial products.

Physical:

Ability to travel to present results of work.

Mental:

Ability to remain open-minded and positive.

Other:

US Citizenship required as this position will need to have a security clearance.

