



**Job Title:**

Computer Vision Researcher

**Job Description:**

Xerox Research Center Webster (XRCW) has an immediate need for a student researcher for either part-time consulting or co-op basis in the area of Computer Vision. The candidate should be a graduate student in the fields of Computer Vision, Computer Science, Computer Engineering, Electrical Engineering, or Image Science. A truly exceptional undergraduate student that has an excellent fit to the position would be considered. The first activity area for the candidate will be in the general area of human face detection. The candidate will research state-of-the-art face detection algorithms in various open sources including the academic literature, patent literature, and open source software code bases. The candidate will analyze algorithms and provide a summary of their strengths and weaknesses. Working with colleagues in a team environment, the candidate will then develop, customize, and optimize a face recognition algorithm for a specific application area that requires very high fidelity under noisy real-world image capture conditions. The candidate will be involved in all aspects of the project including algorithm development, system training, optimization, and verification. Future activities beyond face recognition are envisioned. This position requires significant skills in mathematics and computer programming. The candidate should have excellent skills in Matlab, and should also have strong skills in a C-language variant. Strong knowledge of standard image processing algorithms is required. The ability to write efficient understandable code is required. The candidate should be able to easily communicate technical ideas informally on a whiteboard, as well as in technical presentations and in written form. Previous experience in Face Detection is highly desirable. The candidate will have an opportunity to participate in an emerging growth area and will be able to interact with world class researchers in image and video processing in a wide range of applications.

To apply, please send a resume to the Project Leader: Peter Paul ([peter.paul@xerox.com](mailto:peter.paul@xerox.com))