# Computer Vision Software Developer/Postdoc

As a computer vision software developer/Postdoc at the Visual Computing Center (VCC), you'll be developing software to transform how we digitally scan our world using drones and laser scanning. We are looking for a creative mind that has the understanding of the relevant theory, strong software development skills, and ability to efficiently and quickly solve complex problems that will push the envelope in 3D scanning.

### Responsibilities

* You'll work with our research scientists to develop software code that integrates multiple sensors (LiDAR, SfM, HyperSpectral Camera, Thermal, GPS, IMU) into a single comprehensive digital capturing system. This would include development of computer vision algorithms to efficiently integrate the different sensor data into the same 3D world space.
* You’ll co-design a software interface (preferably in Qt) to process the acquired data into final results, eventually outputted to a 3D GIS.
* Characterize and quantify the performance of the software
* Prototype your software solutions for scanning.
* Publish original research with our team.

### Requirements

* MS or PhD in Computer Science or Electrical Engineering with a focus on Computer Vision
* High proficiency in C++
* Competence with computer vision libraries such as OpenCV, OpenVX, Matlab and PCL
* Fast prototyping skills, including comprehensive feature integration during all cycles of development and commitment to writing clean, well architectured code
* Hands-on experience with structure-from-motion and multi-view stereo techniques
* Demonstrable example of experience in Cross-compiling GUI Interfaces (Qt preferably)
* Experience with processing time-of-flight laser scanner generated data is a plus
* Practical knowledge of machine learning, image processing, probability and statistics, and computer graphics
* Collaborative, positive, team-oriented mindset
* Provide technical guidance to more junior team members

### Compensation

* Competitive Salary
* Housing and Benefits Include