



COMPUTER VISION RESEARCHER

DUTY STATEMENT

Seeing Machines is seeking an outstanding researcher in the field of image processing / computer vision to work in our core technology R&D team.

As a member of the team you will be:

- Researching state of the art techniques for tracking 3D objects in space.
- Implementing algorithms in Python and C++.
- Working closely with experienced Software Engineers.
- Constantly learning.

Candidates will require strong theoretical and mathematical skills, a working knowledge of the latest computer vision techniques and experience developing real-time algorithms in C++.

This is a role that requires a deep appreciation of the difference between a demo and technology that works. Candidates must have a proven ability to not simply reproduce the work of others but are also able to innovate new techniques.

The position also requires someone who is at their best when working in a team, who is both able to learn from their peers and able to mentor in-kind, without prejudice. Candidates must therefore demonstrate an ability to express technical concepts clearly and calmly, and be of a nature that promotes team cohesion.

Applicants must be able to live and work in Canberra, Australia.

International applicants will be considered.

SELECTION CRITERIA

Qualifications/Knowledge

1.	Tertiary level computer science, engineering degree or equivalent experience.	ESSENTIAL
2.	Polite manner. Good oral and written English communication skills.	ESSENTIAL

Skills/Experience

1.	Masters or PhD level qualifications in computer vision, or equivalent experience.	ESSENTIAL
2.	Experience developing vision algorithms for a product or system that is used in the real-world.	ESSENTIAL
3.	5+ years of experience developing in C++.	ESSENTIAL
4.	Experience with C++ STL and Boost libraries.	ESSENTIAL

5.	1+ years experience using Python	DESIRABLE
6.	Knowledge and experience with multithreaded / multi-process programming techniques and pitfalls.	ESSENTIAL
7.	Testing experience – automatic unit testing in C++.	DESIRABLE

Personal Attributes

1.	Ability to work effectively in a team and respond cooperatively to the requirements of other company members	ESSENTIAL
2.	Ability to champion ideas and achieve consensus within a team	ESSENTIAL
3.	Ability to set priorities and meet deadlines	ESSENTIAL
4.	Strong drive to apply software engineering principles, and pragmatically improve software quality within a dynamic development environment	ESSENTIAL
5.	Ability and desire to continuously learn new skills	ESSENTIAL

APPLICATION PROCEDURE

Assessment will be against the selection criteria, and applications should be framed accordingly.

Submit written applications, including a CV, any links to earlier work, and some sample C++ source code, preferably by email to recruit@seeingmachines.com.

COMPANY INFORMATION

Seeing Machines Ltd. builds machines that see. In particular the company specializes in computer vision algorithms that are able to track faces with high fidelity in real-world environments (outside the office).

We are looking to hire people as the company grows to help us take advantage of the enormous commercial opportunities. We are looking for motivated individuals to join a dynamic and friendly environment, working with the latest camera and processing technology. We offer competitive remuneration and conditions. The company headquarters are located in 11 Lonsdale St. Braddon Canberra, less than a minute walk from the heart of the CBD and right next to the best coffee in the city.

The company was formed in July 2000. Currently there are approximately 36 staff are employed in Australia and the US.