**ELECTRONICS ENGINEERS, Junior & Senior**

**QUALIFICATIONS AND JOB DESCRIPTION**

NanoMagnetics Instruments Ltd. is one of the world leading companies developing Scanning Probe Microscopes (SPMs) and Low temperature measurement systems. NanoMagnetics is stablished in 1998 at Oxford, UK and later in 1999 at Ankara, Turkey as the first Turkish nano spinoff.  Our clients include universities like **Oxford, MIT, Stanford, Harvard, CalTech, Berkeley**; research labs like, **NASA, Oak Ridge, Los Alamos, Argonne National Labs**, and companies like **Apple, Tesla, Microsoft, Samsung & Seagate**. Our team of 58 people is composed of scientists and engineers, gives us the expertise required for R&D and manufacturing.

 We are looking for ambitious & experienced Engineers to develop Atomic Force & Scanning Probe Microscopes, low temperature electrical & magnetic measurement / characterisation systems, ~1GigaPixel size optical large area Imaging & Surveillance systems.

Please send your resume if you have experience in:

• Digital design expertise with FPGAs using VHDL for high speed control & image processing applications

• Experience in analogue and digital hardware design.

• C, C++ knowledge.

• Experience in microcontrollers & embedded systems, ADC and DACs, high speed USB2.0 & USB3.0 interfaces

• Prepared to work hard & independently in a dynamic and demanding environment.

• Turkish Citizenship is not compulsory

• Please send your resume to [jobs@nanomagnetics-inst.com](mailto:jobs@nanomagnetics-inst.com)

**IMAGE PROCESSING / COMPUTER VISION ENGINEERS, Junior & Senior**

**Description**

We are looking for a highly skilled and motivated engineer to play a key role in delivering state of the art image and video processing technologies which will be embedded to our Wide-Area Surveillance System.

**Responsibilities**

* Research and development of computer vision and machine learning algorithms to be integrated into our Wide Area Surveillance System
* Support the complete software development lifecycle, including specifications, design, hardware interfacing, implementation, debugging, testing, and documentation
* Participate in the development of imaging hardware specifications
* Contribute to system architecture

**Qualifications**

* Solid Foundation in basic image processing techniques: enhancement, feature recognition and segmentation
* Knowledge and experience of computer vision and machine learning methods (deep learning is a plus)
* Experience with performance tuning of algorithms on embedded architectures
* Experience with video compression techniques and standards is a plus
* Strong analytical and mathematical skills
* Significant experience in C++ production software development and object-oriented programming is essential
* Hands on experience in video processing in MATLAB is desired
* Experience in GPU programming environments is desired
* Experience in OpenCL/OpenGL/OpenGLES programming is desired
* Good communication and interpersonal skills
* Please send your resume to [jobs@nanomagnetics-inst.com](mailto:jobs@nanomagnetics-inst.com)

**Education & Experience**

* Computer Science or Electrical Engineering or equivalent. M.Sc. is preferred.
* A minimum of 3 years of experience in the field of image/video processing algorithm development is required.
* Turkish Citizenship is not compulsory