

Job Description: Computer Programmer

In order to maintain our leading position, we are recruiting for a graduate software programmer to join our team for our next generation of polishing and metrology machines.

Our development focuses on novel methods for manufacturing freeform optical surfaces.

You will be responsible for developing key modules of software inside our new core polishing software to enable novel polishing techniques for highly complex surfaces. The daily challenges will be to develop robust algorithms with the domain of computer control polishing in the following areas:

- CAD import
- Optimisation algorithms
- Surface Modelling
- Kinematics
- CNC Code Generation

As a small, but growing company, no two projects will be alike and new techniques and ideas will need to be developed. Our client base industries include optical, healthcare, aerospace and the mobile phone industry. Projects range from high precision optics through to medical grade implants. The position will evolve around the candidate over time.

Continuous training will be given to introduce the successful candidate to Zeeko's Intelligent Robotic Polishing systems, as well as 5 axis CNC machines. The training will be conducted 'on the job' with live projects to ensure each training module is consistent with future projects and demands.

The appointee will most likely be qualified to Bachelor's Degree or equivalent in Engineering (Computer, Science, Mechanical, Electrical) and have experience in Object Oriented Programming (Python/C++). You should also have experience in MATLAB and common CAD/CAM packages.

The following are highly desirable, but not essential:

- Extensive hands on experience in developing software using PYTHON programming language on Windows backed by a robust set of automated unit & integration tests, with the need for minimal guidance and oversight
- Sound Object-Oriented fundamentals
- Experience in using various Python Libraries including (but not limited to) Scientific packages (NumPy and SciPy)
- Experience in using open source libraries (written in different language to Python) and wrapping them to be used in Python for Windows OS
- Experience in using OpenCASCADE CAD/CAM kernel
- Experience in using CAD/CAM packages (e.g. AutoCAD/SolidWorks/ProE/CATIA/RhinoCAD/etc.)
- Have strong mathematical skills (Coordinate Geometry, Vector Algebra, Linear Algebra, Trigonometry, Calculus)
- Experienced in using IDEs (PyCharm/Visual Studio)
- Experienced in using Version Control Systems (SVN/Git)
- Experienced in using CNC machines

- Be able to work on a large code base

The candidate must be:

- Be effective in both written and verbal communications and have great attention to detail
- Be able to work in a strong team environment, whilst be self-motivated and diligent
- Be committed and have the ability to resolve challenges however big or small

The successful candidate will be familiar and comfortable with working in a focused team with tight project deadlines.

The post is based at our Coalville headquarters in the East Midlands, and although the candidate will be based primarily in the UK, there is a requirement for worldwide travel dependant on the business needs.

Zeeko Ltd will offer a competitive remuneration for the right candidate.

Please send your application, including your Curriculum Vitae to:

HR Department
Zeeko Ltd
Vulcan Court
Vulcan Way
Coalville
Leicestershire
LE67 3FW

Or via email to:

heather.horner@zeeko.co.uk

Your application should state the post for which you are applying and should include appropriate career details. You should also state any special experience or reasons as to why your application will be of particular interest to Zeeko Ltd.

Within your application, please advise on your current notice period should you be appointed.