Instrument Control Developer (LabVIEW / C++ Integration) to work in a Cell Biology Institute
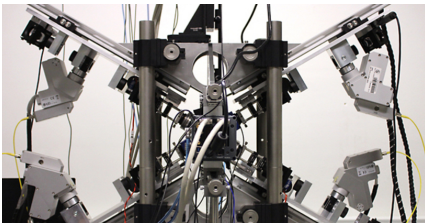
Company Description

Scionics Computer Innovation GmbH provides consulting, services, and support to academic institutions and scientific research organizations. Scionics integrates information technology and data and image analysis techniques with biology and the life sciences.

Scionics is located in Dresden, Germany, and is part of the dynamic Biopolis Dresden research campus that includes the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), the Center for Regenerative Therapies Dresden, the Technische Universität Dresden and their Biotechnology Center (Biotec), and the Center for High Performance Computing. Scionics works closely with all of these institutions and has a particularly strong long-standing partnership with the MPI-CBG. This provides Scionics staff access to new technology, exciting projects and research. Scionics works together with a highly international community of scientists who are world leaders in their respective fields. Driven by the frequent requests coming from the institutions on the Biopolis Dresden research campus, Scionics wants to strengthen its expertise in developing instrument and microscope control software, specifically in LabVIEW/C++.

Job Description

Scionics Computer Innovation seeks to recruit a highly motivated individual who will be integrated into an existing team dedicated to Scientific Software Development. This team provides services within an academic research institute (MPI-CBG) and works with research groups to design, construct, and deploy scientific applications. The development team works closely with research

groups working at the interface of biology and physics as well as with several groups dedicated to optical technology development. This provides an exciting and unique opportunity to work with a wide range of cutting edge equipment in a multidisciplinary environment with biologists, physicists, mathematicians, and computer scientists.

Developmental SPIM Microscope at the MPI-CBG

This position represents an expansion of the team's capabilities to develop instrument control software for both commercial and developmental microscopy platforms along with their related mechanisms, motors, and sensors.

Responsibilities Include
- LabVIEW integration of electronic hardware including microscopes, lasers, motorized stages, power meters, cameras, etc.
- LabVIEW based GUI development for microscopy and equipment automation
- User consultation in LabVIEW and related technologies
- Staying up to date with latest developments in the community
- General programming and integration of other technologies (C++ drivers) with LabVIEW
- Working with the rest of the Scientific Development team on a wide range of scientific development projects

Essential Requirements
- Excellent communication skills, both verbal and written
- Proven experience developing in and integrating supported hardware with LabVIEW
- Proven experience in using vendor supplied tools, libraries, and SDKs to integrate new hardware with LabVIEW

- Proven experience in instrument control programming, preferably in a scientific research environment
- Familiarity developing GUIs for the control of instruments or microscopes
- Programming skills in C, C++, Java, or equivalent language
- A college, university, or higher degree in an appropriate scientific discipline (Computer Science, Engineering, Mechatronics, Physics, Mathematics, Robotics, Biology, etc.)
- Must be fluent in English
- Strong ability to work in a team

Benefits

Contract: Scionics offers favorable contract conditions and salary based on experience.

Corporate culture: Scionics is an SME with strong ties to academia. If you work here, you will meet a lot of international people (~50% of your colleagues would be non-German) and get a good opportunity to broaden your horizons not only culturally but also with regard to modern science. The work environment in Scionics is informal and with less bureaucracy than a big corporation (but not as chaotic as a start-up).

Location: Scionics is headquartered in Dresden, a beautiful but still affordable city. The position will be based at the MPI-CBG, Dresden. The Scionics offices are located close to the river Elbe, with residential areas within walking distance. According to WirtschaftsWoche, a German business magazine, Dresden with its 500,000 inhabitants is the most dynamic city in Germany.

Company stability: Scionics is a privately held, profitable company.

Contact us
If you are interested in this position, please send your CV and any relevant documents to: instrumentjob@scionics.com with the subject "**Instrument Control Developer**".