



Mirion Technologies (AWST) GmbH in Munich, part of Mirion Medical, offers services in the field of radiation protection and dosimetry. As an official individual monitoring service with 70 years of history, it carries out dosimetry measurements to ensure compliance with occupational health and safety limits for occupationally exposed persons working with ionizing radiation. With more than 170 000 monitored individuals, it is the largest service in Germany and Europe.

BeOSL technology is used for the measurement of ionizing radiation and the associated products such as dosimeters and read-out equipment are proprietary developments of Mirion Technologies (AWST) GmbH, which are marketed worldwide under the Dosimetrics brand.

Under the brand of Instadose a next generation of dosimeters based on Direct Ion Storage (DIS) technology developed by Mirion Technologies will be introduced to turn individual monitoring into a fully digital service.

Mirion Technologies (AWST) GmbH is currently developing new IT solutions and hardware for passive dosimetry and preparing an introduction of Instadose technology for official dosimetry in Germany. New dosimeters under development include extremity dosimeters for photon and beta radiation for use in interventional radiology and nuclear medicine and a new Instadose dosimeter specially designed for the European Market.

For the development of new dosimetry technology and related IT solutions, Mirion Technologies (AWST) GmbH is looking for the following person to start as soon as possible.

Development Engineer for Measurement SW/HW (f/m/d)

Your Role

- Taking a senior role in product development and optimization projects including project management, requirements definition and tracking along with budget, resource planning and reporting
- Improve and develop algorithms for measurements, QA processes and data acquisition from dosimetry systems
- Implementation of algorithms in relevant soft and firmware with the support from international IT team
- Integration and implementation of new products in existing SW systems
- Support re-design and improvements of electronical and mechanical technology building blocks through simulation and implement SW/FW changes
- Develop tools for statistical analysis of dosimetric data for system optimization
- Support development of Instadose and BeOSL radiation detection technology for new applications (e.g. neutron detection or new radiation protection quantities) through simulation and develop related algorithms and IT extensions

Your Qualifications

- University degree in computational science and engineering, engineering informatics, computer systems in engineering, physics, electrical engineering, or equivalent



- Relevant work experience in IT or R&D development projects either in industry or at the post-graduate level
- Specializing in at least 1 and a firm understanding of several of the following areas:
 - Algorithm development for measurement systems
 - Algorithm IT (SW/FW) implementation for measurement systems
 - Software programming (C++, Java, C#)
 - System optimization and automatization projects including PLC programming
 - Data analysis and statistical analysis and calculations for system optimization
- Additional knowledge in the following areas would be beneficial:
 - Electrical engineering (development of hardware and control software)
 - Firmware programming
 - Mechanical engineering, construction and CAD
 - Active and passive radiation detector technology
 - Radiation protection, radiation physics and medical technology

Your Skills

- Highly structured working method
- Goal oriented
- Team player
- Ability to balance business and technical requirements
- Communicative person willing to engage with international customers, researchers and management
- Written and spoken fluency in German and English

In Return

- You will be part of an experienced, committed, cooperative and friendly team where you will be challenged and encouraged
- You will receive a thorough induction and will be actively supported in your personal and professional development
- You can shape your career in an innovative and expanding company
- You can expect generous benefits including remuneration and potential company pension scheme
- Social commitment is rewarded with special leave
- We promote employee health including our Bike-to-Work Programme and a sports studio cooperation (Qualitrain)
- Drinks and a meal allowance

Are you interested? Please send your CV, including earliest start date and salary expectations, by email to:

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