



A.D.A.M SA seeks to appoint a

## PLC Software Engineer

A.D.A.M SA (Applications of Detector and Accelerators to Medicine) is working on the R&D and production of accelerators for medical applications. It is a research company, inspired by CERN and a subsidiary of Advanced Oncotherapy plc. A.D.A.M SA is head-quartered in Meyrin/Switzerland and its laboratories are based at CERN. A.D.A.M SA is involved in a hadron cancer-therapy project to build the linear proton accelerator LIGHT (Linac for Image Guided Hadron Therapy). LIGHT's proton energies range from 70 MeV to 230 MeV and its beam properties are ideally suited for the effective treatment of cancerous tumors. We are aiming to provide a clinically superior and cost-effective alternative to conventional radiation therapy solution, ensuring that clinicians and patients have choices, and that proton therapy is available more widely. More information on A.D.A.M. SA can be found on [www.adam-geneva.com](http://www.adam-geneva.com) and [www.avoplc.com](http://www.avoplc.com).

The successful candidate is expected to integrate accelerator subsystems into the LIGHT control system using programmable logic controllers.

### Job Description

#### Responsibilities and tasks

- ) maintain and port existing local control system based on Beckhoff PLCs
- ) implement slow control using Siemens Simatic S7 based PLCs.
- ) prepare test cases and to execute commissioning with the integrated subsystems
- ) provide end user documentation
- ) gather requirements for dedicated control systems
- ) elaborate designs for dedicated control systems

#### Qualifications

- ) have a bachelor's degree in software engineering, computing, electronics or equivalent
- ) at least one year of experience in Beckhoff PLC development, preferably TwinCAT 2.1
- ) Handling of digital and analog signals, processing of data acquired via bus-connections or serial interfaces
- ) Good knowledge of industrial networks, e.g. RS485, Ethernet, Modbus, Profibus, Profinet
- ) Spoken and written knowledge of English with the ability to draw up technical texts.

#### Desirable

- ) Previous projects to integrate accelerator subsystems
- ) At least three years of experience in PLC development (any platform)
- ) Basic knowledge of version control systems, i.e. git

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#### ADAM S.A.

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#### ADVANCED ONCOTHERAPY PLC

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## What we offer

- ) a competitive salary and contribution to healthcare costs
- ) 24 days holiday plus the CERN closing days (approx. 6 days per year)
- ) career progression through training, development and attendance at conferences
- ) a friendly, international working environment with experts in their field
- ) the chance to be at the cutting-edge of proton therapy research

## Applications

Interested candidates should submit:

- ) a cover letter
- ) a curriculum vitae,
- ) a bachelor's degree certificate or equivalent in a relevant field
- ) at a minimum, the names of 2 referees, or two letters of recommendation, and/or employment certificate/s
- ) any other relevant certificates, i.e. PLC training certificates

by email to the HR Administrator, Sabrina Lagrimosa: [sabrina.lagrimosa@avo-adam.com](mailto:sabrina.lagrimosa@avo-adam.com)

For further information please email our Group Leader, Control System Roland Moser, [roland.moser@avo-adam.com](mailto:roland.moser@avo-adam.com)

Job applications open on 15 May and will close on 31 May or until the position is filled.

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