

Measurement, Test and Analysis Section (MTA)
Survey, Mechatronics and Measurements Group
Engineering Department
CERN

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Our mission

The MTA section provides turnkey solutions for Measurement and Test systems and data analysis applications according to an industrial model, adapted to CERN requirements. This model aims at leveraging industrial technology and ensures the coherence with installed systems, which reduces development effort and simplifies maintenance over their lifetime.

The section offers support for the implementation of applications and systems built using a selected set of National Instruments and Alliance Members' products.

We provide CERN-wide LabVIEW support and we support a framework for Rapid Application Development (RADE) based on LabVIEW, C++ and Java, which includes interfaces to CMW (middleware), RBAC (access control) and JAPC (multi-tier, java based access to middleware).

And finally, we provide integration of LabVIEW real-time systems on PXI and cRIO platforms into the accelerator infrastructure (middleware and timing).

Your mission

- Responsible for the technical design of C++/C module integration in LabVIEW for both server and client based architectures
- Maintain and support our existing C++/C libraries and related LabVIEW modules
- Collaborate with project leaders and developers assigned to related projects
- Represent our team in technical workshops and training sessions

Your profile

- Some years of experience in object- and component-oriented software development (C++)
- Basic knowledge of different development tools such as Eclipse, (GNU) Makefiles, Visual Studio (2010 and onwards) and scripting languages (Python, Bash, Pearl, etc)
- Good knowledge of OS: Linux, Windows

- Basic knowledge of Mac OS X
- Knowledge of LabVIEW and LabVIEW-RT is an advantage, but training can be provided
- Good team work and collaboration skills
- Good communication skills
- Fluent English, knowledge of French appreciated