



# Electronics instrumentation automation engineer

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## About the company

Qplox is a fast growing company offering test and automation engineering. Headquartered in Leuven, with offices in Barcelona and Eindhoven.

Our clients are major multinational enterprises and local companies from automotive, semiconductors, RF, consumer electronics....Our Test automation group offers a one stop shop for design of automated test benches, system integration production, lab automation and data acquisition systems, with a growing focus in IoT sensor networks.

Our consultancy department offers services in RF, semiconductors and electronics design and test, as well as on the crossing roads of Nanotechnology, Bio-Science Engineering and Biotechnology .

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## Job Description

Working with AttoLab scientists, define criteria and logic to automate the motion of the stages and wafer exposure and then implement by writing program to control all subsystems interactively as needed for loading and beam setup followed by fully automated during exposure needed to correctly process wafers:

- Load-lock for manual wafer loading to the wafer chuck before exposure setup and exposure, and extraction from process vacuum chamber after processing including transfer process (between load-lock and wafer chuck).
- Pre-Alignment Checks: EUV flux should next be checked by positioning over a photodiode (may need manual help to get started) or using a CCD and log all activities.
- Beam alignment procedures using beamline mirror stages and pick-in/out assemblies sending near-point + far point beams to a CCD and use optimization algorithms (maybe simple hill-climbing?) and bounds to prevent run-away (can debate leaving some of this manual due to difficulties) and log all activities.
- Start Exposure runs – map xy wafer positions, check and adapt positions xyz and execute matrix of number exposures with programmed exposure conditions. During exposure runs (which could last 10s of hours) detect any: power drops, spatial and/or pointing drifts, instability - correct across the variety of stages, using predefined stage motion to compensate and log all activities.

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## Candidate Description

- Software architecture.
- Python programming.
- Ability to write a user interface with rudimentary GUI Knowledge of working with hardware drivers.
- Ability to work with a team of system users.
- Knowledge (speaking and writing) of English is essential.

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## We offer

An attractive salary package with extra benefits. A high tech, multicultural and young ambient. A fast track in a growing company. Formation in multidisciplinary environment plenty of learning opportunities.

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## Contact

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Send your CV and application letter to [jobs@qplox.com](mailto:jobs@qplox.com) with the subject "**electronics instrumentation automation engineer**".

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