



Database Developer for Sustainability Assessment of Semiconductor Fabs

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.

Job Description

We are looking for a database developer to take lead in data handling in the next generation of our customer app and to propose and deploy the appropriate DBMS solutions. Is a Web App for the modelling of the environmental impact of Integrated Circuit chip manufacturing, developed to assist the semiconductor industry reach its sustainability goals. Join us and support this effort by bringing our Life Cycle Analysis software to a next maturity level with the deployment of a new data management system.

The assignment

The app is based on a backend Python code connected to a fronted Javascript code. The API is deployed on Azure. In the backend, the environmental impact of Si-chip manufacturing is quantified through a Life-Cycle-Analysis (LCA) of a high-volume semiconductor fab. LCA requires the inventory of all semiconductor input and output flows. This is a data-intensive task where good data collection and manipulation are crucial to guarantee the quality of the output result. The management of this input and output data needs to be taken to the next level through the implementation of database functionalities that enable multi-user, user-friendly data handling by the colleagues collecting the data, efficient and evolutive data manipulation from the python code, while ensuring safe data storage and data security towards app users. Other features that are necessary are a graphical user interface for data querying and amending, monitoring of the data variation over time through a versioning system, as well as data cleaning and deduplication.

Candidate Description

- Self-motivated, result-driven database and code developer:
 - Can demonstrate prior experience with application developments.
 - Knowledge of database implementation and maintenance is a must, python knowledge is a must.
 - Familiarity with other languages and application development tools is desirable.
 - Has good communication skills. An excellent command of English is mandatory.
 - Is able to work according to agreed customer timelines and manage time efficiently according to aggressive project schedules.
 - Shows initiative and autonomy, while being part of a team.
 - The required features of the database and DBMS:
 - DBMS with GUI for the engineers to probe the databases with queries and to amend them
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- Evolutive (Data and data structure will evolve along with the development of the code)
 - User friendly, Multiuser
 - Data versioning and storage
 - Data cleaning, deduplication
 - Data security
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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.

Contact

Send your CV and application letter to jobs@qplox.com with the subject "**Database Developer**".
