**Design User Interface for Imaging Data and Analysis Toolkit**

**Category:** Research and development

**Location of the internship:** Veldhoven, The Netherlands

**Internship period:** The start date is as soon as possible for the period of 6 months or longer, for 5 days a week.

**Application deadline:** As soon as possible.

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**Summary**

In the OIF department we qualify and contribute to the Overlay, Imaging, Focus and Defectivity system performance of ASM L machines. Part of the work involves exploration and analysis of data about the shape of the patterns created by the lithography machines. This exploration and analysis of imaging data is done with a toolkit, which is developed within the OIF department. This toolkit allows the users to combine dozens of independent calculation and visualization functions into standard analyses.

**The company is offering:**

You will work on a state of the art machine in close collaboration with the best experts. In addition, you’ll get expert, practical guidance and the chance to work in and experience a dynamic, innovative team environment.

You will receive a monthly internship allowance of 500 euro maximum (depending on educational level), plus a possible housing or travel allowance. Terms and conditions can be found on our website.

**Student’s responsibilities:**

Design the user interface of our data exploration and analysis toolkit. The task can be broken down into:

- Analyze the requirements of the users of the toolkit.
- Design a user interface to handle these requirements. This user interface should be easily extendable and maintainable by engineers who have limited software engineering experience.
- Implement the user interface using Python, in short iteration loops to maintain alignment with the users.
- Transfer and document the knowledge and learnings.

**Qualifications / Skills:**

You are a bachelor or master student in human-technology interaction, or a related discipline, and have experience with user interfaces. You are fluent in English, both verbally and in writing. Furthermore, you are proactive and have good communicative skills. Experience with Python is a must.

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**Contact**

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**Link to the ASML vacancy page:**