INTERNÉSHIP: Investigate and test 3D modeling software for ASML Systems

Background Information
ASML Applications focuses on software applications to improve the performance of ASML systems. Within ASML applications our team is working on specific modeling and simulation software, in order to improve and enrich ASML's application software for our machines. For certain capabilities of our products we use 3D modeling. Currently we use a specific third party 3D kernel in our software. However, we are interested in investigating alternatives that could potentially replace the current choice of the 3D modeling kernel.

Your assignment
Within ASML you will:
1. Investigate the landscape of 3D modeling software libraries, compare them using existing test suites and report this comparison. Possible evaluation areas are runtime, accuracy, flexibility, maintainability, etc.
2. Choose viable alternatives from the research and investigate their advantages or disadvantages when applied in our specific use case, by (partially) rewriting our software to use one or more of the different investigated kernels, as prototype development.

When you are interested in a graduation internship, additional assignments are possible.

Your profile
You are a master's student in computer science, or related discipline. You have good communicational skills (both written and verbal) and good knowledge of English. Furthermore, you have experience with C++, Python and Unix/Linux. You are proactive and can work independently. Prior experience in 3D modeling is a must.

This is an apprentice or graduation internship for a period of 3 months or longer. The number of days per week can be discussed. The start date will be as soon as possible.

Please keep in mind that we can only consider students (who are enrolled at a school during the whole internship period) for our internships and graduation assignments.

What ASML offers
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.

Join ASML
ASML is leading in the worldwide development, production and sales of high-end lithography systems for the semiconductor industry. Almost 14,000 people worldwide work at ASML at offices in the United States, Asia and at the corporate headquarters in Veldhoven. ASML employees share a passion for technology with a customer focus. At ASML, we work collectively to further develop and implement complex and high-quality technological systems. Working at ASML is therefore challenging and dynamic, with ambitious objectives and high standards key to our continuing success. But hard work here pays off: ASML invests in the development of its people and successes are shared. ASML promises mutual commitment to our growth and yours.

Join ASML’s expanding multidisciplinary teams and help us to continue pushing the boundaries of what’s possible.

Field: Computer Science
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