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Defectivity analysis and classification engineer (POET)

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Company: imec

Location: Leuven

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Engineering - Leuven | About a week ago

You perform defect analysis and contribute to defect improvement projects.

Defectivity analysis and classification engineer (POET)

The Platform & Operations Efficiency Team (POET) has responsibility to drive speed of learning in imec's 200 & 300mm Si pathfinding and platformization activities and to create and maintain stable modules and flows. This needs to happen for imec's research test vehicles and critical customer projects in many interesting fields like logic, memory, interconnect, 3D, Si photonics, sensors, MEMS and life science applications.

The Defect Analysis & Reduction Team (DART) is part of POET and is driving defect improvements in the 200 & 300mm FABs such that defects are controlled within imec's program's needs, whether that is for research success, platform repeatability or LVP yield. To improve and control defects, it is important to find defects first and then classify them based on size, source, impact, severity, etc.,.

What you will do

You will be part of DART where you perform defect analysis and contribute to defect improvement projects. In support of existing projects, you will work with team members to interpret and evaluate defect root cause sources. While growing in your role, you will work on increasingly challenging projects.

You will be in charge of the defect classification and analysis of inspected wafers using

dedicated defect analysis software packages.

You regularly/irregularly report on progress both internally to your integration team members and externally to other engineering teams.

You follow up on internal customer lots and make sure those lots are inspected, reviewed and analyzed in time.

You document defects and root causes along the way and maintain a defect library with the other DART members

Assist or perform defect review on optical or SEM inspection tools in the cleanroom using defect result files.

You come up with ideas to improve and increase the accuracy of defect detection and classification of the devices imec develops.

Overall, your contributions through your defect analysis and classification will help to improve product, processes, and equipment.

Together with integration and process engineers, you investigate process and/or process-related issues to find and solve the root cause of defects.

Your onsite presence 4 days per week in average is required.

What we do for you

We offer you the opportunity to join one of the world’s premier research centers in nanotechnology at its headquarters in Leuven, Belgium. With your talent, passion and expertise, you’ll become part of a team that makes the impossible possible. Together, we shape the technology that will define the society of tomorrow.

We are committed to being an inclusive employer (/en/careers#diversity) and proud of our open, multicultural, and informal working environment with ample possibilities to take initiative and show responsibility. In everything we do, your future colleagues are guided by the imec values of passion, excellence, connectedness and integrity. We commit to supporting and guiding you in this process; not only with words but also with tangible actions. Through y, 'our corporate university', we actively invest in your development to

further your technical and personal growth.

We are aware that your valuable contribution makes imec a top player in its field. Your energy and commitment are therefore appreciated by means of a market appropriate salary with many fringe benefits.

Who you are

You have 2 to 10 years of experience directly in defect classification in a wafer fab semiconductor production environment, outside of academia.

You have a bachelor's or a master’s degree.

You can create accurate and concise reports and present results to an audience of internal customers.

You have an eye for details and able to separate signal from noise, and are highly precise.

You are innovative, and you enjoy highlight inefficiencies and suggesting / implementing improvements An enthusiastic team player with a can-do mentality.

A proactive, positive, hands-on with willingness to learn.

Given the international character of imec, a fluent knowledge of English is necessary.

Please note that this position is based in Leuven, Belgium. You either live in Belgium or are willing to relocate. Relocation support is provided by imec.

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