Intern R&D Engineer

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We are looking for our intern in modeling of latest generation magnetic sensor technologies.

CrivaSense Technologies designs, develops and manufactures a portfolio of state-of-the-art magnetic sensors solutions. We cover a wide range of applications: position, speed, angle, current sensors, or bio-sensors.

Our activity extends from the sensors fabrication on silicon to their characterization and qualification in operating conditions, for applications that must meet extremely strict standards like in the automotive field. To this end, we are looking for an internship candidate that would contribute to the development of the technology modeling activity. You will be following the development of models describing the behavior of sensors, especially in the operating conditions of the automotive sector. This modeling activity includes an experimental part (experimental data acquisition, instrumentation, ...) and a data processing and analysis part (modeling, model / experiment comparison, extraction of parameters, ...).

During this internship, you will be able to fully appreciate all the stages of R & D projects, from the concept to the implementation in the application. You will get strongly involved into the topics of modeling, instrumentation, simulation, data processing, reporting.

As a part of a team of 15 people, you will have the opportunity to work in a human-sized company, with a wide spectrum of experiences and skills. You will also interact with our partners, the CEA of Saclay and the US group Allegro Microsystems LLC, worldwide leader in the magnetic sensors industry.

Requested skilled:

• Numerical methods for modeling / simulation (finite elements, curve fitting, regression analysis, statistical data processing ...)
• Programming (Matlab, C / C ++)
• Instrumentation
• Sensor concepts and bases in magnetism are a plus

Contract: internship agreement of 5 to 7 months, full time

Place : Saint-Aubin (91), Paris-Saclay plateau, France

Wage: 1500 € monthly gross salary

Requested candidate: Master/engineer student, Instrumentation, Modeling, Engineering systems, Physics

Languages: French and English

Contact: Caroline FORT, caroline.fort@crivasense.com