

Junior researcher

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Company: Delft University of Technology (TU Delft)

Location: Delft

Category: computer-and-mathematical

The Image sensor group in EI Lab is looking for a junior researcher to join the research project involving the design, implementation & fabrication of infrared capable pixels using advanced silicon post-processing technology.

Your key responsibilities include:

Supporting the image sensor team with mask design, device physics simulations and other analytical modelling

Assistance with the clean room activities (process and experiments)

Measurement, testing and characterization of image sensors and/or test pixels

Preparing and maintaining documents, consolidating results and interfacing with the fab and other stakeholders (such as Penta project meetings and members)

Attending project progress meetings and presenting the findings

Specifications

36—40 hours per week

€3226—€5090 per month

Delft

Delft University of Technology (TU Delft)

Requirements

MSc. degree in Electronics, Physics, or similar

Knowledge of semiconductor device physics & process

Ability to use a mathematical software of choice for computation & analysis

Fluent communication skills in English, both written and oral

Conditions of employment

Fixed-term contract: 1 year.

Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities. The TU Delft offers a customisable compensation package, discounts on health insurance, and a monthly work costs contribution. Flexible work schedules can be arranged.

The position has a fixed-term contract of 1 year.

For international applicants, TU Delft has the [Coming to Delft Service](#). This service provides information for new international employees to help you prepare the relocation and to settle in the Netherlands. The Coming to Delft Service offers a [partner support](#) for partners and they organise events to expand your (social) network.

Employer

Delft University of Technology

Delft University of Technology is built on strong foundations. As creators of the world-famous Dutch waterworks and pioneers in biotech, TU Delft is a top international university combining science, engineering and design. It delivers world class results in education, research and innovation to address challenges in the areas of energy, climate, mobility, health and digital society. For generations, our engineers have proven to be entrepreneurial problem-solvers, both in business and in a social context.

At TU Delft we embrace diversity as one of our core and we actively to be a university where you feel at home and can flourish. We value different perspectives and qualities.

We believe this makes our work more innovative, the TU Delft community more vibrant and the world more just. Together, we imagine, invent and create solutions using technology to have a positive impact on a global scale. That is why we invite you to apply. Your application will receive fair consideration.

Challenge. Change. Impact!

Department

Faculty Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) brings together three scientific disciplines. Combined, they reinforce each other and are the driving force behind the technology we all use in our daily lives. Technology such as the electricity grid, which our faculty is helping to make completely sustainable and future-proof. At the same time, we are developing the chips and sensors of the future, whilst also setting the foundations for the software technologies to run on this new generation of equipment – which of course includes AI. Meanwhile we are pushing the limits of applied mathematics, for example mapping out disease processes using single cell data, and using mathematics to simulate gigantic ash plumes after a volcanic eruption. In other words: there is plenty of room at the faculty for ground-breaking research. We educate innovative engineers and have excellent labs and facilities that underline our strong international position. In total, more than 1000 employees and 4,000 students work and study in this innovative environment.

Click to go to the website of the Faculty of Electrical Engineering, Mathematics and Computer Science.

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