



Traineeship 2017/2018

Assignment	
Traineeship title	Near Infrared Organic Photodetectors
Description of the main activities to be carried out	<p>Organic photodetectors are investigated for existing imaging technologies as they offer cheap processing methods, they can be prepared on light, flexible and large-area devices and their photophysical and optoelectronic properties can be tuned both at a material and device level. Research on novel materials and device architectures that detect in the near infrared spectrum could open a wide range of applications in different fields (e.g. healthcare, biometry).</p> <p>In this traineeship, the student will prepare and characterize photodetectors based on organic materials. Different approaches will be taken to attain near infrared wavelength photodetection.</p> <p>In order to achieve this, the student will learn the common preparation techniques used in organic electronics as well as the different morphological, optical and electrical characterization tools. From this, the student will learn how to analyze the data and extract conclusions in a scientific way.</p>
Department/Area	Flexible Electronics/Thin Film Transistors – Holst Centre
Available positions	One
REQUIRED PROFILE	
Level of Education : Vocational/Bachelor/Master	Master Student preferred
Education background	Physics, Chemistry, Nanotechnology, Chemical Engineering, Electrical Engineering or related fields
Other competences/experience required	-
Required language (s) Level B1/B2	English: B2



Starting month of the traineeship	As soon as possible
Remarks	-
COMPANY INFORMATION	
Name of organization	Holst Centre (TNO)
Website	https://www.holstcentre.com/
Logo	
Address	High Tech Campus 31 5604 KN Eindhoven The Netherlands
Contact person	Daniel Tordera
Tel/Email	daniel.torderasalvador@tno.nl +31 40 40 20 422
Short Description of the Institution/Company	<p>Holst Centre is an independent R&D center that develops technologies for wireless autonomous sensor technologies and for flexible electronics, in an open innovation setting and in dedicated research trajectories.</p> <p>A key feature of Holst Centre is its partnership model with industry and academia based around shared roadmaps and programs. It is this kind of cross-fertilization that enables Holst Centre to tune its scientific strategy to industrial needs.</p>
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