



HOLST CENTRE is a research institute located on the High Tech Campus in Eindhoven. The Holst Centre has a focus on System in Foil Products and Production. One of the research programs will be dedicated to the "integration technology for flexible systems" program. For this program we are looking for a:

## Researcher Modeling & Reliability

### Job description:

You will be working at the interface of materials science and process technology in a multidisciplinary research environment. As a member of the Holst Centre you will develop and apply numerical and experimental techniques to investigate the reliability of laminated flexible microelectronics. Your tasks and responsibilities include:

- Development and application of models that can describe the behavior of functional structures/ materials and interfaces under thermo mechanical loads and can help to predict and improve stability of flexible electronic devices;
- Definition of research themes and defining and setting up of the reliability program within the Integration Technology Team;
- Planning and execution of experiments and reliability tests;
- Investigation of failure modes;
- Generating innovative approaches to improve reliability and securing IP and publication of results in scientific journals;
- Setting up an expanding a scientific network with other researchers within Holst Centre, researchers in the industry and academia and establishing co operations.

### Profile:

You are a researcher with affinity to applied and experimental research with the following background:

- PhD in physics, material science, mechanical engineering or micro-technology or MSc with research experience in this field;
- Hands-on mentality, good organizational and communicational skills;
- Solid background in computational mechanics;
- Interest in combined modeling and experimental investigations for flexible electronics applications;
- Good communicational skills in English.

**For more information contact: Marianne Janssen / HR Advisor Phone: +31.40.2774001 / Mail: [Marianne.janssen@tno.nl](mailto:Marianne.janssen@tno.nl)**