



Diploma-/Master thesis: Physical and Chemical Characterisation of Printable Functional Material for Semiconductor Applications

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Diploma-/Master thesis: Physical and Chemical Characterisation of Printable Functional Material for Semiconductor Applications

At a glance

Location	Villach
Entry level	Thesis support
Job ID	13469
Start date	01.10.2016

Job description

The subject of this master thesis is the development of printing processes (inkjet printing, stencil or screen printing) and its integration into the workflow of semiconductor manufacturing. This is an interdisciplinary field with the core subjects chemistry, physics and material science. The aim of the project is to investigate and characterise new functional materials (conductors, dielectrics, sensors,...), which can be applied by industrial printing processes in order to apply them in the semiconductor industry.

- Developing printing processes for new materials with highly specific properties
- Usage of modern industrial and research printing equipment
- Conversion of printed structures via chemical and physical processing into stable end form
- Evaluation and optimisation of all relevant process parameters (DoE)
- Physical and chemical characterisation of process results
- Usage of modern chemical and physical analysis tools
- Working in an interdisciplinary and international team

Start: 01.10.2016 (6 months)

Working time: full-time (38.5 hrs/week)

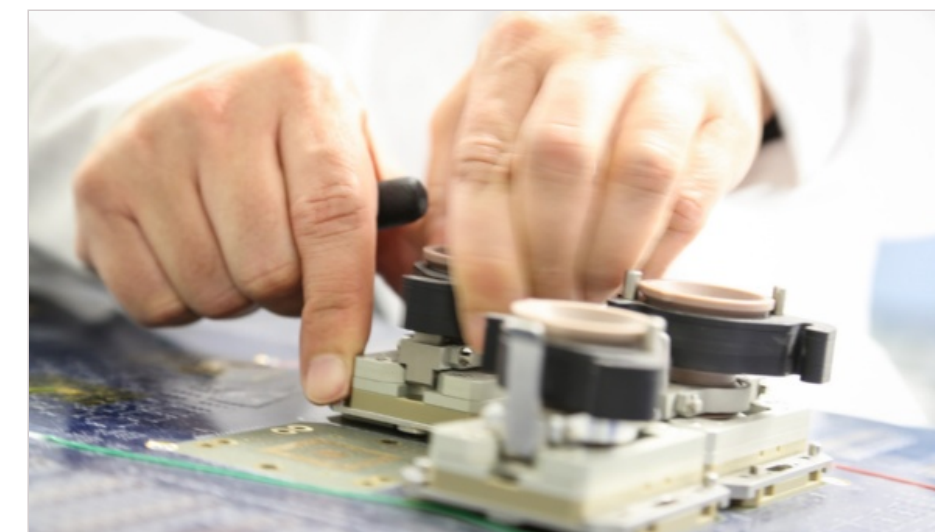
This position is subject to the collective agreement for workers and employees in the electrical and electronics industry. The salary for this position is 1.738 gross p.m.(full-time basis).

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