



Diploma- / Master Thesis: Development of Printing Processes for Functional Materials in Semiconductor Manufacturing

Job description

Subject of this master thesis is the development of printing processes (inkjet printing, stencil- or screen printing) and its integration in to the workflow of semiconductor manufacturing.

This is an interdisciplinary field with the core subjects chemistry, physics and material science. Additional keywords: micro structuring, printing of new functional materials, specially developed for semiconductor applications: electrically conducting (e.g. metal nano particle based inks or pastes and organic polymers (functioning as dielectrics, passivation and protection layer or highly selective resist mask).

Main Tasks:

- Printing of new functional 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
 - Development, characterisation and evaluation of conversion processes and of print result
 - Usage of modern chemical and physical analysis tools
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- **Earliest starting date:** by arrangement
 - **Work time:** fulltime (38,5 hours per 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 1.746,-- gross p.m.(full-time basis).

Profile

The candidate will work in the environment of a small, international development and production team. Social competence, personal integrity, pro active working, personal commitment, responsibility, active planning and communication skills are required.

Bachelor degree in:

- Chemistry
- Physics
- Materials Science
- Nano Technology
- Microsystems Technology

Please attach the following documents to your application:

- Your CV
- Motivation letter
- Copy of your certificate of matriculation at a university
- Copy of your latest study transcript

At a glance

Location:	Villach
Job ID:	19266
Start:	immediately
Entry level:	Thesis support
Type:	Full time
Contract:	Temporary

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