



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

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

Manufacturing At a glance

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

Quick info

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

Job description

Subject of this master thesis is the development of printing processes (inkjet printing, stencil- or screen printing) and it's 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).

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OK

- Printing of 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
 - 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
- Copy of your final Matura certificate
- Copy of your Bachelor certificate

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