
Position offered:

Research Associate (BAT IIa)



TECHNISCHE
UNIVERSITÄT
DARMSTADT

PRINTED ORGANIC CIRCUIT PROCESS TECHNOLOGY MODELING

Description:

Within the frame of the BMBF and DA VINCI **excellence research programme "Forum Organic Electronics"** we are looking for a researcher working on **electrical printed electronics process characterisation** and **modeling** in close cooperation with the Institute of Printing Technologies at TU Darmstadt. Objective is the generation of models for circuit and layout structures in order to gain models for performing an electrical printing process simulation.

Based on these technology models and circuit models, tools for CAD-supported layout generation for printed organic electronics will be derived.

— The position provides the opportunity of writing a Ph.D. thesis.

Prerequisites:

We expect an MSc. in *Electrical Engineering* (technology oriented) or an MSc. in *Physics* (semiconductor physics) or an MSc. in *Material Sciences* and the capability of performing research work including publications on international conferences and in international journals. Candidates, which don't already have finished a Ph.D. thesis are requested to work on a Ph.D. dissertation. We expect from candidates the capability of closed interdisciplinary teamwork with researchers from other research domains.

— Applicants should have skills in at least one of the fields:

- Analog and Mixed Signal Integrated Circuit Design
- Device and Circuit Modeling
- Device Physics
- Experiences with technology simulators (e.g. TCAD)

Female applicants and handicapped applicants with equivalent background well be preferred.

Project Frame:

BMBF funded Excellence Cluster Forum Organic Electronics

<http://www.bmbf.de/de/10726.php>

— **Project Start:** 1st of January 2009 or later

Working Location: TU Darmstadt, Institute of Microelectronic Systems

We offer: the possibility to work in an excellent interdisciplinary research team in close cooperation with a lot of premium partner companies involved in the project.

Contact:

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