

# expectation loves surprise

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We are the world's leading chemical company because we offer intelligent solutions for our customers and for a sustainable future. We link and develop people with diverse talents all over the world. For you, this means a variety of ways to advance. Not only your performance but also your personality matter to us. At BASF, careers develop from opportunities.

A key success factor for our research is the tight collaboration with the InnovationLab GmbH (iL) located in Heidelberg. iL is a combined, application-oriented platform for research and knowledge transfer in science and business in the Rhine-Neckar metropolitan region. For this cooperation project we are looking for a

## PhD Student in Modelling Organic Electronics (m/f)

### What you can expect:

The InnovationLab GmbH is working on the future technology of organic electronics, forming a central component of the strategy for success of the BMBF Leading-Edge Cluster Forum Organic Electronics. Your thesis aims at understanding and predicting properties of self-assembled monolayers on electrode surfaces for use in organic electronics by means of quantum chemistry. In close collaboration with synthetic chemists and device engineers, you will watch your predictions and proposals set into practice. You are an integral part of a major research project that reaches from organic synthesis of surface active molecules to manufacturing printed organic electronics.

### What we expect:

You have a master in chemistry or physical chemistry with above average grades and a sound knowledge in molecular simulations and quantum chemistry. Programming skills and experience with unix systems is a must. Beyond these abilities in your field, you have a very good command of German and English, and you are enthusiastic about working in a practical research environment cooperating with potential customers, universities and research institutes. Along with these credentials, you are an excellent team player as well as a creative self-starter.

### Working area:

Research & Development

### Location:

BASF SE, Ludwigshafen

### Working hours:

Full-time

### Contract Type:

Master Thesis/Ph. D.

### We offer:

BASF in Ludwigshafen offers you a challenging work environment and a committed team to be part of. With your doctoral advisor Dr. Marek Sierka and as a member of the innovationLab you are in direct contact with the leading research groups in the field.

For further details please contact  
Mr. Robert Send,  
Email: [robert.send@basf.com](mailto:robert.send@basf.com)

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### Reference code

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