Marie Skłodowska Curie ITN Early Stage Researcher Openings in Chemical Physics

Applications are invited for one post with Dr. Ottmar Jagutzki and Dr. Achim Czasch as part of a European funded project at RoentDek Handels GmbH. The post benefits from a highly competitive and attractive salary, plus mobility and family allowances as applicable. The successful candidate will be part of the EU-funded Marie Skłodowska-Curie Innovative Training Network (ITN), "ASPIRE", and is also invited to register for a PhD in the Nuclear Physics department (IKF) at the Johann-Wolfgang-Goethe Universität in Frankfurt.

The ASPIRE network comprises 9 member institutions, from both academia and industry, located in the United Kingdom, Germany, France, Denmark and Italy, together with 6 partner organisations. A total of 12 Early Stage Researchers (ESRs) will be hosted across the network and will take part in laboratory-based research, a network-wide training program, public engagement activities and collaboration with network partners through short-term placements in European industrial/academic partner laboratories. Details of all available projects can be found at: www.ASPIRE-ITN.eu.

The overarching research goal of the ASPIRE project is the measurement of "molecular frame" (MF) photoelectron angular distributions (PADs) from isolated molecules of varying complexity. Individual projects in ASPIRE will involve the use of charged particle detection technology as well as either state-of-the-art laser systems or synchrotron radiation. Progress in this area of research is highly technologically driven, and the input of private company partners is critical to the scientific objectives, as well as to the enhanced training environment that will be provided.

The RoentDek-based project is "Software development for MCP detector read-out and multi-hit reconstruction".

The successful candidate for this post will possess an excellent Master's degree in a relevant subject (Physics, Chemistry, Chemical Physics), excellent verbal and written communication skills, and the potential to conduct independent scientific research and perform well as part of a research team. Candidates will be required to meet the Marie Skłodowska-Curie Early Stage Researcher **eligibility criteria**: (http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-msca_en.pdf, p40-41). In particular, at the time of appointment candidates must have had less than four years full-time equivalent research experience and must not have already obtained a PhD. Additionally, they must not have resided in Germany for more than 12 months in the 3 years immediately before the appointment.

The applicant should have basic language skills in German.
She/he must be well trained in C++ programming, numerical methods and should have hands-on experience in multi-threaded processing. Programming examples of her/his past work may be submitted as part of the application.
She/he should be familiar with particle counting detection systems (signal generation in MCPs and analogue high-frequency circuits)

These full-time posts will be available from September 2016 and are each offered on a fixed-term 36 month contract.

RoentDek values diversity and is committed to equality of opportunity.

Formal applications must be addressed to Dr. Ottmar Jagutzki (jagutzki@roentdek.de), who may also be contacted for any informal enquiries.

The deadline for application is March 15th, 2016 with interviews expected to be held April/May 2016.