Center for Advancing Electronics Dresden

For the project “Bottom-Up generation of atomically precise synthetic 2D materials for high performance in energy and electronic applications” ULTIMATE the Chair of Molecular Functional Materials offers the following positions:

2 Research Associates / PhD students

Research area: Organic synthesis of 2D polymers and graphene for optoelectronics applications

Investigators: Prof. Dr. Xinliang Feng

Research path: Organic/Polymer Path

Terms: 50% of the fulltime weekly hours for PhD students, starting October 1, 2019 until 30.09.2022.

The period of employment is governed by the Fixed-Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD).

Position and Requirements

Within this European Project, the Chair of Molecular Functional Materials is focused on the synthesis and production of 2D polymers and graphene materials which emerge as outstanding candidates for a great number of electronic applications. The goal of this research is to synthesize graphene molecules and 2D polymers bearing electronic functions.

The successful candidates will be responsible for: Design and bottom-up organic synthesis of graphene molecules and 2D polymers with novel edge structures; solution and interface chemistry will be involved.

We aim at attracting the best talent in the respective research fields and expect the following: an outstanding university degree in organic chemistry, polymer chemistry or similar; previous experience in organic or polymer synthesis; very good interpersonal and communication skills; in particular, the ability to effectively work in collaborative research efforts; an independent, target- and solution-driven work attitude; inter- and multidisciplinary thinking; strong motivation and interest to join one of the most ambitious interdisciplinary research clusters; fluency in English - written and oral.

What we offer

You will join a team of enthusiastic scientists who pursue creatively their individual research agenda inspired by the cluster's innovative approach and support. Your research will be fostered by the cfaed philosophy to promote young researchers, which includes: access to state of the art research of leading academic institutes; promotion of gender equality and family-friendly work environment as well as an individual thesis advisory committee (TAC) for PhD students.

Informal enquiries can be submitted to Prof. Dr. Xinliang Feng, Tel +49 (351) 463 43250; Email: xinliang.feng@tu-dresden.de.

Applications from women are particularly welcome. The same applies to people with disabilities.
Application Procedure
Your application (in English only) should include: motivation letter, CV, copy of degree certificate and proof of English language skills.
Complete applications should be submitted preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document quoting the reference 1906_ULTIMATE in the subject header to recruiting.cfaed@tu-dresden.de or by post to: TU Dresden, cfaed, Prof. Xinliang Feng, Helmholtzstr. 10, 01069 Dresden. The closing date for applications is 25.07.2019 (stamped arrival date of the university central mail service applies). Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis

About cfaed

cfaed is a central academic unit of TU Dresden and brings together 300 researchers from the university and 10 other research institutes in the areas of Electrical and Computer Engineering, Computer Science, Materials Science, Physics, Chemistry, Biology, and Mathematics. cfaed addresses the advancement of electronic information processing systems through exploring new technologies which overcome the limits of today's predominant CMOS technology. www.cfaed.tu-dresden.de

TU Dresden

The TU Dresden is among the top universities in Germany and Europe and one of the eleven German universities that were identified as an 'elite university' in June 2012. As a modern full-status university with 18 faculties it offers a wide academic range making it one of a very few in Germany.