Within the Center for Advancing Electronics Dresden, the Chair of Molecular Functional Materials offers a position for the project “Emerging Printed Electronics Research Infrastructure” (EMERGE) as

**Research Associate (m/f/x)**
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

**Research area:** Synthesis and characterization of 2D polymers and graphene-related materials and their ink preparation for printable electronics

**Investigators:** Prof. Dr. Xinliang Feng

**Research path:** Organic/Polymer Path

**Terms:** 50 % of the fulltime weekly hours, starting from **November 1, 2022** until August 31, 2024 with the option of extension. The period of employment is governed by the Fixed-Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

**Position and Requirements**

Within this European Project, the Chair of Molecular Functional Materials is focused on the synthesis and characterization of 2D polymers and graphene-related materials, which emerge as outstanding candidates for a great number of electronic applications. This research aims to synthesize and characterize graphene-related materials and 2D polymers bearing electronic functions and prepare their inks for printing technologies.

The successful candidate will be responsible for: Bottom-up and top-down synthesis of graphene-related materials and 2D polymers and preparation of their inks for printing technologies.

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 early career researchers, which includes: access to state-of-the-art research of leading academic institutes; promotion of gender equality and family-friendly work environment.

Informal enquiries can be submitted to Prof. Dr. Xinliang Feng, Tel +49 (351) 463 43251; 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 quoting the reference EMERGE-2022-11 should be submitted to: **TU Dresden, cfaed, Professur für Molekulare Funktionsmaterialien, Herrn Prof. Dr. Xinliang Feng, Helmholtzstr. 10, 01069 Dresden**. The closing date for applications is **September 7, 2022** (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’. As a modern full-status university with 17 faculties it offers a wide academic range making it one of a very few in Germany.