The Collaborative Research Center (SFB) 1143 "Correlated Magnetism: From Frustration To Topology" invites applications, subject for granted funds, for

**12 Research Associates / PhD positions**

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

which entail 50 % - 75 % of the fulltime weekly hours. The positions are available from **01.01.2019** fixed-term for a duration of 3 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (e.g. PhD).

**Tasks:** The SFB is devoted to the investigation of materials and models with strong electronic correlations, focusing on frustrated magnetism and topological states of matter. Positions are available in the fields: Experimental Condensed Matter Physics (6 positions), Theoretical Condensed Matter Physics (3 positions), Inorganic Chemistry (3 positions). Scientific tasks within the SFB encompass synthesis of novel materials, crystal growth, measurements of thermodynamic and transport properties, also under extreme conditions, neutron and electron spectroscopy, scanning probe microscopy and spectroscopy, nuclear magnetic resonance measurements, numerical simulations of quantum spin systems, and calculations of thermodynamic and transport properties using microscopic or field-theoretic methods. We expect a close collaboration with scientific partners and the supervision of Bachelor and Master thesis projects.

**Requirements:** university degree preferentially in physics or chemistry; motivation for doing outstanding basic research both independently and in collaborations; proficiency in German or English; ideally experience with experiments or modeling of magnetic materials.


Applications from women are particularly welcome. The same applies to people with disabilities. Please send your application with CV, overview of research interests, list of publications, copy of documentation of the highest academic degree earned, and the names and addresses of at least two possible references until **13.12.2018** (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to: **sfb1143@tu-dresden.de** or by regular mail to: **TU Dresden, Fakultät Physik, Institut für Theoretische Physik, Herrn Prof. Dr. Matthias Vojta, Helmholtzstr. 10, 01069 Dresden**. 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](https://tu-dresden.de/karriere/datenschutzhinweis).