The Department of Chemistry, research group on Prof. Lichtenberg offers a fulltime-position for 2 years to be filled as soon as possible, if no former times of qualification must be considered, for a

**Postdoctoral Researcher (m/f/d)**

Salary and benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 13, 100 %).

The position is associated with the research group of Prof. Dr. Crispin Lichtenberg with a focus on reactive bismuth compounds for synthetic and catalytic applications. The person to be appointed should therefore previously have worked successfully in current and topical research fields of reactive metal complexes dealing with the detailed analysis of new bonding situations or catalytic applications. Tasks associated with the advertised position are centered around the synthesis of novel molecular bismuth complexes, their physical and spectroscopic properties and the investigation of their stoichiometric and catalytic reactivity patterns. Furthermore, this includes general tasks in academic research and teaching and the publication of the new findings in scientific journals.

The position will be filled by a temporary contract that is limited to the period which is necessary to gain further scientific expertise (such as the preparation for a subsequent qualification period). Within the entrusted tasks the opportunity for independent scientific work to obtain further personal qualification is given. The limitation of the contract complies to § 2 Abs. 1 WissZeitVG.

The successful applicant will hold a university degree (diploma, master's degree or comparable) and a doctorate in chemistry with a focus on coordination chemistry, organometallic/organoelement chemistry, or catalysis. A significant number of scientific contributions published in renowned peer-reviewed chemistry journals of the above-mentioned thematic complexes as well as a very good knowledge of English, both written and spoken, are required. A very good knowledge of German is not required, but can be advantageous. Further requirements include assertiveness, a creative, analytical and critical mindset, the ability to work both in a team and independently, and the ability to identify and develop successful research projects.

The handling and isolation of air-, moisture-, and light-sensitive species using state-of-the-art Schlenk and glove-box-techniques must be routine processes for the applicant. Routine applications of state-of-the-art analytical methods for the investigation of molecular complexes are mandatory (NMR, IR, UV/vis spectroscopy, single-crystal XRD), experiences with EPR spectroscopy, cyclic voltammetry, and theoretical calculations can be advantageous. Disposition to own scientific qualification is expected.

Please include in your application a cover letter and C.V., a list of publications (pointing out the own contributions to each publication), names of two potential referees, who can provide a letter of support on demand, degrees and certificates, and a list of job-related skills.

We promote opportunities for women, expressly requesting applications from women. In areas where women are underrepresented, we will favor female applicants if their application carries equal merit compared to the applications of their male peers. Our university furthermore aims to be family-friendly, which means we welcome applicants with children. Filling this position on a part-time basis (see § 9 (2) sentence 1 of the Hessian Equal Rights Act -(HGIG)) or reduced working hours are possible in principle. Applicants with disabilities within the context of the German Social Security Code IX (SGB) (§ 2 (2), (3)) will be favored if their application carries equal merit compared to applications from candidates without disabilities. Application and processing costs will not be refunded.

Please send your application in English or in German mentioning registration number fb15-0005-wmz-2022 as a single PDF to Prof. Dr. Crispin Lichtenberg, crispin.lichtenberg@chemie.uni-marburg.de, before 18th March 2022.