

The **Brandenburg University of Technology (BTU) Cottbus-Senftenberg** is a young university that is actively helping to shape the structural change in Lusatia to phase out lignite and is providing scientific support for transformation processes in many ways. In the coming decades, the region will be one of the most exciting real laboratories in Germany, from which ground-breaking development impulses are to emanate. Employment at the BTU therefore promises more than ever participation in development processes towards a sustainable and climate-friendly future.

The **Faculty of Environment and Natural Sciences** invites applications for a

PROFESSORSHIP

Coordination Chemistry with specialization on Radionuclides (w2)

commencing at the earliest opportunity.

This professorship is filled in personal union with the management of the department "Chemistry of f-Elements" of the Institute for Resource Ecology of the Helmholtz-Zentrum Dresden-Rossendorf according to the so-called Jülich model. Main place of work is the HZDR research site Dresden-Rossendorf.

We are looking for a scientifically outstanding personality who comprehensively represents the area of coordination chemistry and in particular the substantive focus of coordination chemistry of radionuclides in research and teaching.

The main topics of your current and future research are:

- the chemistry of natural and synthetic radioelements with a focus on actinides and transuranium elements, in particular experience in the handling of transuranium elements and
- the synthesis of complex compounds of radionuclides and especially actinides with inorganic, organic ligands and those with biologically inspired binding motifs and
- chemical analysis and methods for structure elucidation and bond analysis in complex compounds, namely single crystal X-ray diffraction, NMR and luminescence spectroscopic methods for structure analysis in solution, synchrotron surface X-ray diffraction (SXD), quantum-chemical calculations and
- radionuclide sorption on mineral surfaces, radionuclide migration and
- research expertise in the areas of nuclear waste disposal research.

Your commitment is demonstrated by the active acquisition of third-party funding, preferably in the basic research-oriented field, as well as by active publication activities. You establish new scientific collaborations within and outside the faculty as well as with non-university institutions and show commitment to participate in joint research projects with other departments of the faculty and the university.

Teaching responsibilities include participation in basic and special lectures held in German language as well as participation in practical courses in the consecutive Bachelor's and Master's degree program "Materials Chemistry" and their design using innovative teaching formats. Active participation in the further development and future profiling of the study program "Materials Chemistry" is required. In addition, courses - also in English - are to be taught in other degree programs at the BTU. The teaching obligation is 2 LVS. Lectures are primarily to be held in German; fluency in English is expected.

Experience in the acquisition and realisation of third-party funded projects is expected. Fields of research should be relevant for the DFG (German Research Foundation) or similar international research funding organisations.

For further information please contact Prof. Dr. rer. nat. habil. Jörg Acker, Tel. +49 (0)3573 85-816 / email: joerg.acker@b-tu.de.

Other duties result from the requirements set by § 42 Brandenburgisches Hochschulgesetz (Higher Education Act of the State of Brandenburg - BbgHG) in conjunction with § 3 BbgHG.



Die BTU trägt das Gütesiegel des Deutschen Hochschulverbandes (DHV). Sie wird damit für ihre fairen und transparenten Verhandlungen zur Berufung von neuen Professorinnen und Professoren ausgezeichnet.

Please refer to §§ 41 paragraph 1 No 1 – 4a and 43 BbgHG for prerequisites and conditions of employment.

BTU Cottbus-Senftenberg is committed to equal opportunities and diversity and strives for a balanced gender ratio in all employee groups. Persons with a severe disability and their equals are given priority in the case of equal suitability.

As a family-oriented University, BTU Cottbus-Senftenberg offers a Dual Career Service.

The application, including academic certificates, curriculum vitae, a list of publications, as well as proof of teaching experience, should be sent by e-mail in a single pdf file with a max. 7 MB until **14.06.2023** to:

**Dean of the Faculty of Environment and Natural Sciences
BTU Cottbus - Senftenberg, Postfach 101344, 03013 Cottbus**

Email: fakultaet2+bewerbungen@b-tu.de

When sending your application by unencrypted e-mail, please be aware of the risks regarding the confidentiality and integrity of your application content and please also note the data protection information on the BTU website.



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