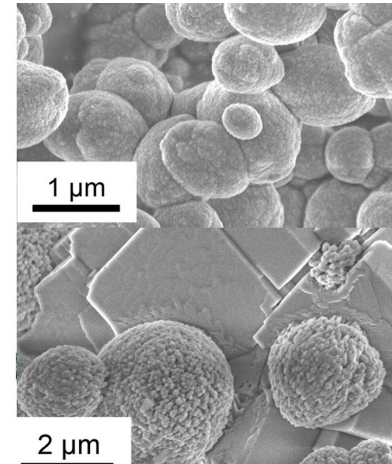
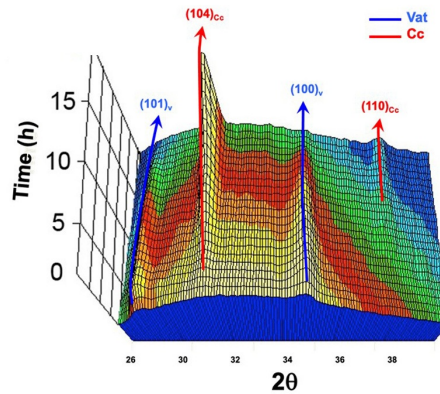


Research Associate (PostDoc) in Environmental Mineralogy (f_m_x)



GFZ is Germany's national centre for solid Earth research. We advance the understanding of dynamic processes to address global challenges, from mitigating the impacts of natural hazards and sustaining our habitat amid global change to responsibly managing georesources. We are part of the Helmholtz Association, the largest German scientific organisation. With around 1,200 employees as well as ca. 500 guest researchers, we contribute to the Helmholtz Research Field Earth and Environment, aligning cutting-edge research with societal relevance and international collaboration. Our work integrates multidisciplinary studies across Earth's system components, leveraging advanced technologies and infrastructure to research solutions and to transfer our knowledge to society. We are doing this according to our vision: "Taking the pulse of our Earth to safeguard a habitable planet".

To complement the various research foci in the Interface Geochemistry (<https://www.gfz.de/en/section/interface-geochemistry/overview>) team, we are looking for a:

Research Associate (PostDoc) in Environmental Mineralogy (f_m_x)

Reference Number 10600

We seek a highly motivated and enthusiastic mineralogist who wants to develop her/his/their skills in a highly interdisciplinary work environment in order to obtain a holistic understanding of mineral-fluid interactions in Earth Surface processes.

The successful candidate will contribute their specialist mineralogical skills in diffraction, spectroscopy and high-resolution imaging to projects aimed at elucidating kinetics and reaction mechanisms of nucleation, growth and transformation of amorphous and crystalline mineral phases in low temperature (< 100 °C) aqueous media. The prime focus will be on in situ experimental approaches that allow us to monitor how changes in inorganic or organic aqueous species affect fundamental solid state mineralogical and geochemical reactions at mineral-water interfaces. The ideal candidate has a well-documented pedigree in experimental (ideally in situ) low temperature mineralogy and crystallography, and preferentially 1-3 years of postdoctoral experience.

She/he/they will join an international and diverse team of researchers led by Prof. Liane G. Benning (<https://www.gfz.de/en/staff/liane.g.benning/sec35>), who is very committed to fostering a fully inclusive research environment. Non-discrimination and equal treatment are integral parts of our group policy.

Your responsibilities:

- Conduct original research and apply your specialised mineralogical/crystallographic knowledge/skills in diffraction, spectroscopy and imaging to address fundamental questions linked to (bio)mineral nucleation, growth and transformation in low temperature systems
- Develop and apply in situ experimental methods to follow change in aqueous and solid state mineral formation and transformation reactions and evaluate kinetic parameters linked to such reactions
- Publish in international peer-reviewed journals; present research results at scientific meetings
- Development of own research directions complementary to those in the Interface Geochemistry (<https://www.gfz.de/en/section/i%20interface-geochemistry/overview>) team is strongly encouraged
- Lead and/or considerably contribute to writing proposals for 3rd party funding

- Help with supervision of Master's and PhD students

Your qualifications:

- MSc and PhD degree in mineralogy, crystallography, material sciences or geosciences with specialization in experimental low temperature mineral formation/transformation reactions
- An indispensable requirement for this post is a clearly documented hands-on expertise in acquisition and complex analyses of diffraction/scattering/spectroscopic data related to mineral formation and stability (i.e., XRD, PDF, FTIR, Raman, TGA/DSC, etc)
- Proven experience in mineralogical/crystallographic data modelling is desired
- Excellent publication and 3rd party funding records
- Capacity for interdisciplinary and international teamwork and excellent communication skills
- Experience in the supervision of students
- Proficiency in spoken and written English and German is an asset

What we offer:

- Ambitious and varied tasks in a dynamic and international research environment
- State-of-the-art equipment
- Public service benefits
- Extensive training opportunities
- Professional career advice offered by our in-house Career-Centre
- Flexible working hours and conditions
- Support with finding a good work-life balance offered by benefit@work
- Institute day-care centre on site
- Working at the Albert Einstein science park on the Telegrafenberg in Potsdam
- Work place within walking distance of Potsdam main train station, or just a short ride on the shuttle bus

Start date: As soon as possible

Fixed-term: 2 years (with possibility of extension)

Salary: The position is classed as salary group 13 according to "TVöD Bund (Tarifgebiet Ost)". The salary group is determined on the basis of the Collective Wage Agreement and the respective personal qualifications.

Working hours: Full-time (currently 39 h/week); The position is generally suitable for part-time work.

Place of work: Potsdam

Have we piqued your interest?

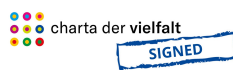
If so, we look forward to receiving your application by **17th August 2025**.

Applications are only accepted if submitted through the online form via the APPLY button below and if they also contain the following documents:

- 1. Cover letter detailing a point by point description how you fit the qualifications and responsibilities detailed for the post**
- 2. CV, full publication list**
- 3. Contact information and stated relationship for 2-3 potential referees**

The GFZ actively promotes diversity and explicitly welcomes applications from all qualified individuals, regardless of ethnic and social origin, nationality, gender, sexual orientation and identity, religion/belief, age and physical characteristics. We also promote an inclusive working environment in which everyone can fully develop their own talents. Anyone who has been recognised as severely disabled, will be given preferential consideration in the event of equal suitability and qualification in accordance with the provisions of the German Social Code IX. In case of further queries regarding gender equality, please do not hesitate to contact our Equal Opportunities Officer (<https://www.gfz.de/en/career/the-gfz-as-an-employer/employee-representation>).

"Diversity in perspectives" is one of GFZ's core values. As an integral part of supporting diversity at our centre, we actively promote women in science and in leadership positions. We among others do this through our gender equality plan and the cascade model (<https://www.gfz.de/en/career/the-gfz-as-an-employer/equal-opportunities>) measures which we actively implement to enable sustainable equal opportunities in academic career paths. The GFZ thus committedly strives for gender equality in science, including in leadership positions, and strongly encourages women to apply.



Your personal data will be processed for the purpose of conducting the selection procedure on the basis of Art. 6 para. 1 b, Art. 88 GDPR in conjunction with Art. 26 of the Data Protection Act for the State of Brandenburg. After completion of the procedure, application documents will be deleted in compliance with data protection regulations.

In case of any further queries relating to the field of activity, please contact Prof. Liane G. Benning (<mailto:benning@gfz.de>) via E-Mail. If you have any general questions about the application process, please contact our recruiting team at our phone number +49 (0) 331-6264-28787.