

The new

**Research Training Group 3186**  
**“Looking for signposts towards**  
**the New Standard Model of particle physics (New SM)”**

funded by the Deutsche Forschungsgemeinschaft will start at the University of Freiburg on April 1, 2026. Via this programme, several

**doctoral researcher (PhD) positions**

in the field of experimental and theoretical particle and astroparticle physics will be opened. The positions are offered for 3 + 1 years. The deadline for applications is January 20, 2026, however, later applications will be accepted until the positions are filled.

The research programme of this Research Training Group includes:

- Exploration of the Higgs sector (ATLAS, future colliders, theory)
- Precision calculations within the Standard Model and its extensions;
- Flavour physics (LHCb);
- Searches for dark matter, new particles and new structures (XENON, XLZD, DELight, ATLAS, SHiP, theory);
- Theoretical particle cosmology (dark matter, baryogenesis of the Universe)
- Technology development (silicon and low-background detectors, federated computing structures, software and artificial intelligence)

We offer a stimulating and supportive environment based on the broad expertise in particle physics at the University of Freiburg.

We are looking for highly motivated candidates with an excellent master degree in physics.

Applications are to be sent electronically in one pdf file to [news@physik.uni-freiburg.de](mailto:news@physik.uni-freiburg.de). They should include a CV, copies of certificates of degrees, a short letter of motivation clearly specifying the field of interest, and the names and contact addresses of at least two referees.

Further information about the Research Training Group and the process of application are available on the web page: [www.uni-freiburg.de/news](http://www.uni-freiburg.de/news)

The University of Freiburg is dedicated to the principles of equal opportunity and diversity and welcomes applications from all qualified candidates regardless of gender, nationality, ethnic and social background, religion/belief, disability, age, or sexual orientation.

Applicants with disabilities will be given preferential consideration in case of equal qualification.

**Contact person:**

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