

The Paul-Ehrlich-Institut (PEI), Federal Institute for Vaccines and Biomedicines, is a world-renowned scientific institute devoted to improving public health by ensuring the safety and efficacy of vaccines and biomedicines both in Germany and throughout the world. PEI carries out its mission through scientific research and medicinal product regulation. Internationally competitive research is carried out in the fields of virology, microbiology, allergology, immunology, hematology and cell and gene therapy.

The research group „Transposition and Genome Engineering“ (<http://goo.gl/cZVbp9>) in the Division of Medical Biotechnology is focusing on the biology, regulation and genetic applications of transposable elements. The research group has open positions funded by the European Union's Horizon 2020 research and innovation programme (<https://www.pei.de/EN/research/press-releases-and-news/news/caramba-paul-ehrlich-institut-partner-research-project-cancer-therapy.html>) for

## 2 x PhD Students

**Closing date: 13.05.2018 / Salary grade: E 13 TVöD (50%) / Job reference: 261**

### Key responsibilities

The research projects are to further develop Sleeping Beauty transposon-mediated gene delivery in the context of CAR-T cells for innovative cancer therapies, and can include, but not limited to, the following major areas of research:

- Generation of novel variants of the Sleeping Beauty transposase for enhanced genetic engineering
- Development of novel "suicide" gene cassettes for selective elimination of gene-engineered cells
- Engineering of transposon systems with respect to efficiency and target site selection
- Insertional profiling of vector integration sites

### Essential criteria for applying

- Master or diploma degree in life sciences
- Experience in molecular and cellular biology
- Basic skills in bioinformatics is an advantage
- Excellent communication skills in English
- Enthusiasm for science

You have the will to achieve and are happy to take the initiative to act. You have the ability to view a problem from different perspectives and think in different categories. You are able to structure your daily activities and set priorities without becoming distracted by details. You work in a goal and result orientated manner. You phrase messages clearly and to the point and are able to interpret the signals conveyed by others. You like working constructively in a team environment and proactively provide input for the Team.

The successful candidates will be employed on an 3-year fixed term contract. The standard full-time working week is 39 hours. Disabled candidates will be given preference if their skills and qualifications are equivalent to those of non-disabled candidates. The Paul-Ehrlich-Institut is an equal opportunities employer.

Are you interested in applying for this role? Please do so by clicking on the link below where you can upload your application including cover letter, CV and certificates: [www.pei.de/vacancies](http://www.pei.de/vacancies).

For questions related to the job profile please contact Dr. Zoltán Ivics (email: [Zoltan.Ivics@pei.de](mailto:Zoltan.Ivics@pei.de); phone: +49 6103 77-6000). For questions related to the application procedure please contact Melanie Würger (email: [Melanie.Wuerger@pei.de](mailto:Melanie.Wuerger@pei.de), phone: 06103/77-1143).

We look forward to your application.

