TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the Faculty of Physics, Institute of Nuclear and Particle Physics, the Chair of Particle Physics offers a position as

**Research Associate / Postdoc (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **January 1, 2024**. The position is initially limited to 3 years, with the option of extension for another 3 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually habilitation thesis).

The Chair of Particle Physics is making leading contributions to measurements of vector boson scattering (VBS) processes with the ATLAS detector, the interpretation of these rare processes in terms of polarisations and anomalous gauge couplings, the modelling of signal and background processes with the Sherpa simulation program, the development of advanced machine learning tools, and a wide range of activities in the ATLAS Physics Modelling group.

**Tasks:** leading contributions to and coordination of the data analysis of the research group; supervision of bachelor, master and PhD. students; autonomous teaching of lectures and exercise classes in the Master of Physics program.

**Requirements:** university and PhD degree in physics, or an equivalent qualification; experience in measurements of Standard Model processes at the LHC; ability to perform outstanding research activities; to coordinate the scientific activities of a research group and of independent teaching in English or German language. Knowledge of the organisational and software frameworks of the ATLAS collaboration is desirable.

For further information about the position, you are invited to send an email to Frank Siegert (frank.siegert@tu-dresden.de) and Michael Kobel (michael.kobel@tu-dresden.de).

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application (including a Curriculum Vitae, a brief proposal describing your research experience and interests, a list of publications with own contributions, a copy of the certificate of your highest academic degree and recommendation letters by two referees) by
November 23, 2023 (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf file to frank.siegert@tu-dresden.de or to: TU Dresden, Fakultät Physik, Institut für Kern- und Teilchenphysik, Professur für Teilchenphysik, Herrn Dr. Frank Siegert, Helmholtzstr. 10, 01069 Dresden, Germany. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.