
The Theory Center at the Institute for Nuclear Physics of Technische Universität Darmstadt is searching for a

Research Associate (Postdoc)

This position is anticipated within the framework of the Hessian Cluster Project “ELEMENTS” starting 1 April 2021 and limited until 31 March 2025, with the possibility for an extension depending on available funding and mutual interest.

The institute for nuclear physics hosts 15 research groups with around 250 members working in the field of experimental and theoretical nuclear-structure physics, nuclear astrophysics and laser and plasma physics. It is one of the largest of its kind worldwide, with the highest international reputation.

The Cluster Project ELEMENTS is a collaborative project of Goethe University Frankfurt (leading partner), TU Darmstadt, JLU Gießen, and the GSI Helmholtz Centre for Heavy-Ion Research. It addresses the physics of binary neutron-star mergers from gravitational waves to the nucleosynthesis of heavy chemical elements and electromagnetic signals. Relativistic heavy ion collisions, which help to explore the physics of strong interaction under extreme conditions, are also relevant to the project. The group leader also anticipates becoming the spokesperson for the Collaborative Research Center-TransRegio 211 “Strong-Interaction Matter under Extreme Conditions.”

The position is open for a researcher who already possesses a PhD and postdoctoral experience in a relevant field and is prepared to pursue an independent research program. The research program must be important for advancing the goals of both the Collaborative Research Center Trans-Regio 211 “Strong-Interaction Matter under Extreme Conditions” (<https://crc-tr211.org/>) and of the cluster project ELEMENTS (<https://www.elements.science>). Specifically, the research program should involve the thermodynamic and/or dynamical properties of strong-interaction matter at extremes of temperature and density with applications to the physics of heavy ion collisions and/or neutron star mergers.

Funds for travel and office equipment are available, and it is expected that the applicant will apply for a fellowship which allows the supervision of graduate students, in which case funds will also be provided for a small research group.

The fulfillment of the duties likewise enables the scientific qualifications of the candidate.

The Technische Universität Darmstadt intends to increase the number of female employees and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the Technische Universität Darmstadt (TV-TU Darmstadt). Part-time employment is generally possible.

By submitting your application, you agree that your data may be stored and processed for the purpose of filling the vacancy. Here you can find our [privacy policy](#).

To apply, please send a CV, list of publications, and a research plan to the director of the institute, Prof. Dr. Norbert Pietralla, gd@ikp.tu-darmstadt.de, and arrange for at least two letters of reference to be sent to the same address. Short-listed applicants will be asked to conduct a (remote) interview.

Code No. 185

Published on: March 29, 2021

Application deadline: April 12, 2021
