

PROFESSORSHIP

Didactics in Biology

Faculty of Biology and Biotechnology

Background:

outstanding doctorate, publication activity, and a high level of commitment to teaching. Practical school experience, pedagogical aptitude and relevant experience in empirical teaching-learning research are expected.

Keywords: Responsibility for the didactic biology components of the biology degree program leading to a Master of Education degree, Development of an own focus in a current field of biology didactics research

Details:

W2 Professorship or W1 with tenure track to W2 | Apply by 10 November 2024 | [Link to application](#)

POSTDOCTORAL POSITIONS

HUMANITIES

Loneliness

The Psychological Method Lab at the Faculty of Psychology

Background:

Doctoral degree in psychology, sociology, data science or related subjects should be completed at the time of starting the position

Keywords: EU Horizon project "The Loneliness and Social Isolation in Europe Network: Evidence-Based Policy Recommendations on its Causes, Consequences, and Monitoring (LONELY-EU). Conceptualization and implementation of systematic searches for relevant datasets and literature

Details:

3 years, full-time | Apply by 21 October 2024 | [Link to application](#)

ENGINEERING SCIENCES

Directed Evolution of Catalysts for the Energy Transition

Institute for Materials, Faculty of Mechanical Engineering

Background:

PhD or equivalent

Keywords: thin films and materials chemistry, Knowledge in the field of material informatics,

Details:

2 years, full-time | Apply by 07 October 2024 | [Link to application](#)

Atomic-scale understanding and design of multifunctional compositionally complex solid solution surfaces

Institute for Materials, Faculty of Mechanical Engineering

Background:

PhD or equivalent

Keywords: Microstructure design of quasi-single-crystalline and smooth model layers, Synthesis and processing of thin films by sputtering

Details:

2.5 years, full-time | Apply by 07 October 2024 | [Link to application](#)

IT-Security (several openings)

Cluster of Excellence CASA

Disciplinary Background:

Computer Science, Cryptography, Electrical Engineering, Mathematics, Psychology

Details:

2 years, full-time, Jump-Start-Program | Application accepted all year around | [Link to application](#)

IT-Security (several openings)

Cluster of Excellence CASA

Disciplinary Background:

Computer Science, Cryptography, Electrical Engineering, Mathematics, Psychology

Details:

2 years, full-time, Jump-Start-Program | Application accepted all year around | [Link to application](#)

NATURAL & LIFE SCIENCES

Stochastics

Faculty of Mathematics

Background:

very good doctorate in the field of stochastic geometry.

Keywords:

stochastic geometry, preferably in the field of hyperbolic stochastic geometry

Details:

3 years, full-time | Apply by 14 October 2024 | [Link to application](#)

Low-Dimensional Topology and Knot Theory

Chair of Low-dimensional Topology at the Faculty of Mathematics

Background:

A PhD (or be close to submission) in low-dimensional topology.

Keywords:

ERC Starting Grant, "Cut-and-paste Conjectures and Multicurves",

Details:

3 years, full-time | Apply by 14 October 2024 | [Link to application](#)

Probability Theory

Chair of Stochastics / Didactics of the Faculty of Mathematics

Background:

very good doctorate in the field of probability theory

Keywords:

Research in a modern field of probability theory, preferably in the area of large deviation theory or the theory of convergence rate analysis (Stein's method, Lindeberg method)

Details:

2 years, full-time | Apply by 11 November 2024 | [Link to application](#)

Rodent Place Cells and Neuronal Oscillations

Department of Neurophysiology at the Faculty of Medicine

Background:

Doctoral degree in Neuroscience or a related field is required

Keywords:

functional scrutiny of place cell activity and hippocampal neuronal oscillations, interaction of hippocampal synaptic plasticity, place cell activity and neuronal oscillations in the generation of spatial representations and memory in rodents.

Details:

2 years, full-time | Apply by 21 October 2024 | [Link to application](#)

Molecular and Cellular Botany

Chair of Molecular and Cellular Botany of the Faculty of Biology and Biotechnology

Background:

PhD in plant physiology or another plant sub-discipline, practical experience with molecular biological and biochemical methods,

Keywords:

general molecular biology and biochemical methods (e.g. PCR, cloning, protein purification and detection), cell biology techniques such as the use of fluorescent markers and their analysis using laser confocal and fluorescence microscopy, Aim: writing grant application to implement research group

Details:

3 years, full-time | Apply by 14 October 2024 | [Link to application](#)

Tearing instability & particle energisation in collisionless suprathermal plasmas

Institute for Theoretical Physics I at the Faculty of Physics and Astronomy

Background:

A PhD in plasma physics or equivalent and experience with fully kinetic simulations / HPC systems is required

Keywords:

Numerical simulations of tearing instability in magnetospheric plasmas, Theoretical analysis of tearing instability in the presence of kappa-distributed plasma

Details:

2 years, full-time | Apply by 7 October 2024 | [Link to application](#)

High-dimensional potential energy surfaces employing neural networks (Several Positions)

Chair of Theoretical Chemistry II of the Faculty of Chemistry and Biochemistry, Research Center Chemical Sciences and Sustainability

Background:

PhD in computational/theoretical chemistry, physics, materials science or a related field

Details:

2 years, full-time | Apply by 31 October 2025 | [Link to application](#)

Solvation Science (several openings)

Cluster of Excellence RESOLV

Disciplinary Background:

Chemistry, Physics, Biochemistry, Chemical, Engineering, and allied

Details:

full-time | Application accepted all year around | [Link to application](#)

Solvation Science, Research Area I (several openings)

Cluster of Excellence RESOLV

Disciplinary Background:

Chemistry, Physics, Biochemistry, Chemical, Engineering, and alile

Keywords:

local solvation phenomena in nano heterogeneous environments that determine the reactivity and selectivity in solution and the function of electrocatalysts, receptors, and enzymes,

Details:

full-time | Apply by 15 October 2024 | [Link to application](#)

Computational/Theoretical Chemistry/Physics (several openings)

Center for Theoretical Chemistry

Keywords:

molecular dynamics/electronic structure, [Link to techniques](#)

Details:

full-time | Application accepted all year around | [Link to application](#)

VARIOUS

Humboldt Fellowships (through Henriette Herz Scouting Program)

Astronomy, Physical Chemistry, History, Philosophy

Keywords:

The Alexander von Humboldt Foundation has selected five outstanding RUB professors as scouts within the prestigious Henriette Herz Scouting Programme . Each of the scouts has the opportunity to recommend three research talents from abroad for a Humboldt Research Fellowship. More infos at www.research-school.rub.de/henriette-herz-scouting

Details:

up to 2 years, full-time | Apply now | Reach out via e-mail (see end)

For questions please reach out to research-career@rs.rub.de