RUHR UNIVERSITÄT BOCHUM **RUB**

PROFESSORSHIPS

NATURAL SCIENCES

Algebraic Geometry
Faculty of Mathematics

Keywords:
Potential fields: Complex Algebraic Geometry, Holomorphic Symplectic Geometry, Calabi-Yau geometry, Kähler Geometry, Arithmetic Geometry, Tropical Geometry, Hodge Theory
Details:
Junior Professorship W1 w/o Tenure Track | Application Deadline: 31 Jan 2024 | Link to application

HUMANITIES & SOCIAL SCIENCES

Digital Humanities in Religious Studies
CERES – Center for Religious Studies

Keywords:
Procedures and methods of digital information processing for dealing with research questions in the humanities and cultural studies;
Details:
Tenure Track Professorsip W1 (Junior/Assistant) | Application Deadline: 31 Jan 2024 | Link to application

POSTDOCTORAL/GROUP LEAD POSITIONS

ENGINEERING SCIENCES

Human-Computer Interaction/Computational Social Science
CAIS - Center for Advanced Internet Studies, Chair of Design of Trustworthy Artificial Intelligence

Keywords:
RS1 - Trust in AI Through Understanding: Measure and analyze users' understanding of AI systems (User Beliefs, Folk Theories)

RS2 - Trust in AI Through Contro: Controlling the output of ML-based systems

RS3 - Trust in AI Through Co-Creation: Deep involvement of users in the design of AI systems
Details:
Up to 5 years, full-time | Application Deadline: 31 Jan 2024 | Link to application

Machine Learning Security
Faculty of Computer Sciences, Chair for Information Security

Background:
Doctor in Computer Science or related field.

Keywords:
Investigate how to improve the security of machine learning and federated learning algorithms and how to securely use machine learning to secure existing platforms. Background in the areas of IT security and privacy, system security, ML security and security of Federated Learning is a strong plus.

Details:
1.5 years, full-time | Application Deadline: 19 February 2024 | Link to application

Symmetric Cryptography

Faculty of Computer Sciences, ERC Grant "SymTrust"

Keywords:
Analysis and the design of symmetric primitives with a focus on security arguments and security proofs.

Details:
2 years, full-time | Apply by Dec 31, 2024 | Link to application

NATURAL & LIFE SCIENCES

Multiwavelength Astrophysics

Faculty of Physics and Astronomy

Background:
PhD in Astronomy or Astroparticle Physics, Expertise in MeV - GeV neutrino detection with ice Cherenkov detectors, realtime data analysis systems, analysis software development/maintenance

Keywords:
neutrino and gamma-ray data analysis, search for signatures of heavy quark decays in binary neutron star mergers

Details:
2.5 years, full-time | Apply by 29 Jan 2024 | Link to application

Molecular characterization of resistance mechanisms

Department of Medical Microbiology of the Faculty of Medicine

Background:
Degree in natural sciences (biology/bioinformatics) and doctorate. Experience in performing DNA sequencing using Illumina and/or Oxford Nanopore, incl. preparatory techniques and bioinformatic analysis of the sequences obtained (assembly, cgMLST, SNP analyses).

Keywords:
biochemical, genetic and molecular characterization of antibiotic resistance mechanisms, especially in the contact area of carbapenem resistance

Details:
3 years, full-time | Apply by 31 Jan 2024 | Link to application

Medical Microbiology

Faculty of Medicine

Background:
PhD in Biology/Bioinformatics, Experience in performing DNA sequencing using Illumina and/or Oxford Nanopore, including preparatory techniques and bioinformatic analysis of the sequences obtained (assembly, cgMLST, SNP analyses).

Keywords:
Genome sequencing, Bioinformatic evaluation, Molecular characterization of resistance mechanisms

Details:
3 years, full-time | Apply by 31 Jan 2024 | Link to application

New Statistical Methods for Functional Data and Space-time Data

Faculty of Mathematics, Chair of Stochastics

Background:

PhD in statistics or mathematics with very good knowledge in the field of mathematical statistics.

Details:

2 years, full-time | Apply by 19 February 2024 | Link to application

Experimental geophysics

Faculty of Geosciences, Institute of Mineralogy, Geology and Geophysics

Background:

PhD in Geosciences, engineering sciences or related subjects

Keywords:

Creation of an environment for digital processing of images taken with a borehole elevator, Adaption, evaluation of the data as well as development of optimization proposals

Details:

2 years, full-time | Apply by 19 February 2024 | Link to application

Systematics, Evolution and Biodiversity of Plants

Faculty of Biology and Biotechnology, Chair of Molecular Evolution of Plants

Background:

Doctorate in botany, plant ecology, evolution and/or systematics of plants

Keywords:

Task is the *Habilitation* in the field of systematics, evolution, and biodiversity of plants. Free choice of topic! Implementation and co-organization of exercises on "Morphology and anatomy of plants"

Details:

4 years, full-time | Apply by 19 February 2024 | Link to application

Systematics, Evolution and Biodiversity of Plants

Faculty of Chemistry and Biochemistry, Chair of Inorganic Chemistry II (Organometallic chemistry)

Background:

PhD in chemistry with a thematic focus on molecular synthetic chemistry

Keywords:

leading role in a project to investigate carbanionic compounds with focus on synthesis and stabilization of low-valent main group compounds and the investigation of their reactivities. Responsible for project management.

Details:

2 years, full-time | Apply by 5 February 2024 | Link to application

HUMANITIES & SOCIAL SCIENCES

Memories of Deindustrialization in Post-industrial Regions in Europe

Institute of Social Movements

Background:

PhD from the Humanties or Social Sciences, preferably History. Knowledge of the history and present of post-industrial regions in Europe

Keywords:

historical path dependencies of the post-industrial regions in Europe to be examined with regard to how memories of deindustrialization and industrial pasts influence ideas of "good ageing";

Details:

3 years, full-time | Apply by 5 February 2024 | 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)

Permanent Calls

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

Solvation Science (several openings)

Cluster of Excellence RESOLV

Disciplinary Background:

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

Details:

full-time | Application accepted all year around | 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

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

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