

Leibniz Competition 2022 – Funded projects



Leibniz Programme for Women Professors

Leibniz Professorship for Evolutionary Ethology at the Humboldt-Universität zu Berlin

Institute	Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science (MfN)
Section	C
Cooperating University	Humboldt-Universität zu Berlin
Project leader	Mirjam Knörnschild

Leibniz Professorship for Computational Pharmacology at the Technical University of Munich

Institute	Leibniz-Institute for Food Systems Biology at the Technical University of Munich (LSB)
Section	C
Cooperating University	Technische Universität München
Project leader	The candidate has yet to assume office.

Ultrafast charge, spin, and nuclear dynamics in complex magnetic materials

Institute	Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI)
Section	D
Cooperating University	Freie Universität Berlin
Project leader	The candidate has yet to assume office.

From phenome to genome: How exceptional novelties open the mechanisms of evolution

Institute	Senckenberg Society for Nature Research – Leibniz Institution for Biodiversity and Earth System Research (SGN)
Section	C
Cooperating University	Johann Wolfgang Goethe-Universität Frankfurt am Main
Project leader	The candidate has yet to assume office.

Leibniz Transfer

Novel ultrafast and versatile two photon excitation microscope for imaging of BSL3 pathogens

Institute	Heinrich-Pette-Institut – Leibniz Institute for Experimental Virology (HPI)
Section	C
Cooperating partners	Universität zu Lübeck; Bernhard-Nocht-Institut für Tropenmedizin (BNITM); Leibniz-Institut für Naturstoff-Forschung und Infektionsbiologie e.V. - Hans-Knöll-Institut (HKI); Medizinisches Laserzentrum Lübeck GmbH
Project leader	Roland Thünauer

Transfer for Transformation - Knowledge Exchange with Global Reach

Institute	German Institute for Global and Area Studies (GIGA) / Leibniz-Institut für Globale und Regionale Studien
Section	B
Cooperating partners	Auswärtiges Amt
Project leader	Amrita Narlikar

Transfer of Urban Sustainability Transition Knowledge: Towards Climate-Neutral Cities 2030 - The City of Görlitz as a Pilot

Institute	Leibniz Institute of Ecological Urban and Regional Development (IÖR)
Section	B
Cooperating partners	Stadt Görlitz; Stadtwerke Görlitz AG; Görlitz für Familie e.V.; Second Attempt e.V.
Project leader	Markus Egermann

Inclusion of Children with Autism Spectrum Disorder in School

Institute	DIPF Leibniz Institute for Research and Information in Education
Section	A
Project leader	Marcus Hasselhorn

Multiphasic hydrogels for high throughput human in vitro tissue and disease models

Institute	Leibniz-Institut für Polymerforschung Dresden e.V. (IPF)
Section	D
Cooperating partners	DWI - Leibniz-Institut für Interaktive Materialien e.V.; INM - Leibniz-Institut für Neue Materialien gGmbH
Project leader	Carsten Werner

Leibniz Junior Research Groups

Mouthfeel - How texture makes flavor: Probing and manipulating nanobiophysical properties of mouthfeel in flavor perception

Institute	Leibniz-Institute for Food Systems Biology at the Technical University of Munich (LSB)
Section	C
Project leader	Melanie Köhler

Computational Study of Iron-Oxo Complexes: Reactivity of (Artificial) Metalloenzymes and Biomimetic Complexes

Institute	Leibniz-Institut für Katalyse e.V. (LIKAT Rostock)
Section	D
Project leader	Milica Feldt

Breaking the limits in faba bean (*Vicia faba* L.) research: improving its nutritional value for reduced dependence on imported protein and promoting eco-friendly farming in Europe

Institute	Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)
Section	C

Project leader	Murukarthick Jayakodi
----------------	-----------------------

Additive manufacturing of graded structures from iron-based shape memory alloys

Institute	Leibniz-Institut für Werkstofforientierte Technologien - IWT
Section	D
Project leader	Anastasiya Tönjes

Rural well-being in transition: multidimensional drivers and effects on (im)mobility

Institute	Leibniz Institute of Agricultural Development in Transition Economies (IAMO)
Section	B
Project leader	Antje Jantsch

Leibniz Collaborative Excellence

Machine Learning for Simulation Intelligence in Composite Process Design

Institute	Leibniz-Institut für Verbundwerkstoffe GmbH (IVW)
Section	D
Cooperating partners	Leibniz-Institut für Polymerforschung Dresden e.V. (IPF); Weierstraß-Institut für Angewandte Analysis und Stochastik, Leibniz-Institut im Forschungsverbund Berlin e.V. (WIAS); Deutsche Forschungszentrum für Künstliche Intelligenz GmbH; Fraunhofer-Institut für Techno- und Wirtschaftsmathematik
Project leader	David May

Amorphous silica in soils and plants Improves Drought stress tolerance of crops

Institute	Leibniz Centre for Agricultural Landscape Research (ZALF)
Section	E
Cooperating partners	Institute of Applied Plant Nutrition (IAPN), Göttingen; Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK)
Project leader	Jörg Schaller

Raman-induced Attosecond Electronic Coherences

Institute	Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI)
Section	D
Project leader	Arnaud Rouzée

The 20th Century in Basic Concepts

Institute	Leibniz-Zentrum für Literatur- und Kulturforschung Berlin (ZfL)
Section	A
Cooperating partners	Leibniz-Zentrum für Zeithistorische Forschung Potsdam (ZZF) e.V.; Leibniz-Institut für Deutsche Sprache (IDS); Universität Hamburg
Project leader	Ernst Müller

Abundance and Fate of Synthetic Materials in Atmospheric sub-10 µm Particles

Institute	Leibniz Institute for Tropospheric Research (TROPOS)
-----------	--

Section	E
Cooperating partners	Leibniz-Institut für Polymerforschung Dresden e.V. (IPF); Helmholtz-Zentrum für Umweltforschung - UFZ; Technische Universität Berlin; Carl von Ossietzky Universität Oldenburg
Project leader	Hartmut Herrmann

Confronting Decline: Challenges of Deindustrialization in Western Societies since the 1970s

Institute	Leibniz Institute for Contemporary History (Institut für Zeitgeschichte - IfZ)
Section	A
Cooperating partners	Deutsches Institut für Erwachsenenbildung - Leibniz-Zentrum für Lebenslanges Lernen e.V. (DIE); Deutsches Institut für Wirtschaftsforschung e.V. (DIW Berlin); Leibniz-Institut für Länderkunde e.V. (IfL); University of Luxembourg, Luxembourg Centre for Contemporary and Digital History
Project leader	Martina Steber

Linking pathology and lifestyle to epigenetic determinants of biological vs. chronological stem cell aging

Institute	Leibniz Institute on Aging - Fritz Lipmann Institute (FLI)
Section	C
Cooperating partners	Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke (DIfE); Universitätsmedizin Greifswald
Project leader	Björn von Eyss

Political polarization and individualized online information environments: A longitudinal tracking study

Institute	Leibniz Institute for Media Research Hans-Bredow-Institut (HBI)
Section	B
Cooperating partners	GESIS - Leibniz-Institut für Sozialwissenschaften e.V.; Universität Bremen; Universität Konstanz
Project leader	Lisa Merten

UV Lasers: From Modeling and Simulation to Technology

Institute	Weierstrass Institute for Applied Analysis and Stochastics (WIAS)
Section	D
Cooperating partners	Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (FBH); Leibniz-Institut für Kristallzüchtung im Forschungsverbund Berlin e.V. (IKZ); Technische Universität Berlin; Friedrich-Alexander-Universität Erlangen-Nürnberg
Project leader	Thomas Koprucki

A translational non-human primate model for preclinical testing of gene therapy of OTOF-related deafness

Institute	German Primate Center – Leibniz Institute for Primate Research (Deutsches Primatenzentrum GmbH, DPZ)
Section	C

Cooperating partners	Max-Planck-Institut für Experimentelle Medizin; Georg-August-Universität Göttingen, Universitätsmedizin Göttingen
Project leader	Rüdiger Behr

(Si,Ge,Sn)O₂-based ultra-wide bandgap semiconductors for power electronics

Institute	Paul-Drude-Institut (PDI) im Forschungsverbund Berlin e.V
Section	D
Cooperating partners	Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (FBH); Leibniz-Institut für Kristallzüchtung im Forschungsverbund Berlin e.V. (IKZ)
Project leader	Oliver Bierwagen

Unlocking Collection Treasures: Accessing Museum Samples for Long Read Sequencing and Genomic Analyses

Institute	Senckenberg Society for Nature Research – Leibniz Institution for Biodiversity and Earth System Research (SGN)
Section	C
Cooperating partners	Leibniz-Institut für Zoo- und Wildtierforschung (IZW) im Forschungsverbund Berlin e.V.; Museum für Naturkunde - Leibniz-Institut für Evolutions- und Biodiversitätsforschung (MfN); Zoologisches Forschungsmuseum Alexander Koenig - Leibniz-Institut für Biodiversität der Tiere (ZFMK); Max-Planck-Institut für molekulare Zellbiologie und Genetik, Dresden
Project leader	Michael Hiller

Transnational Families, Farms and Firms: Migrant Entrepreneurs in Kosovo and Serbia from the 1960s to today

Institute	Leibniz Institute for East and Southeast European Studies (Leibniz-Institut für Ost- und Südosteuropaforschung – IOS)
Section	A
Cooperating partners	Leibniz-Institut für Agrarentwicklung in Transformations-ökonomien (IAMO); Europa-Universität Viadrina Frankfurt (Oder); Institute of Economic Sciences Belgrade, Center for Economic History (CEI), Serbia; Riinvest College, Prishtine, Kosovo; Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Bonn und Eschborn; Food and Agriculture Organization of the United Nations, FAO Regional Office for Europe and Central Asia, Budapest, Hungary
Project leader	Ulf Brunnbauer

Memristive Materials by Design

Institute	Leibniz-Institut für Kristallzüchtung im Forschungsverbund Berlin e.V. (IKZ)
Section	D
Cooperating partners	Humboldt-Universität zu Berlin; Fritz-Haber-Institut der Max-Planck Gesellschaft
Project leader	Martin Albrecht

Learning Resilience: Supporting neuronal network state transitions to foster stress resilience

Institute	Leibniz Institute for Resilience Research (LIR) gGmbH
Section	C
Cooperating partners	Universitätsmedizin der Johannes Gutenberg-Universität Mainz; Max-Planck-Institut für Hirnforschung, Frankfurt am Main; Leibniz-Institut für Neurobiologie (LIN); Otto-von-Guericke-Universität Magdeburg; Universitätsklinikum Bonn
Project leader	Albrecht Stroh