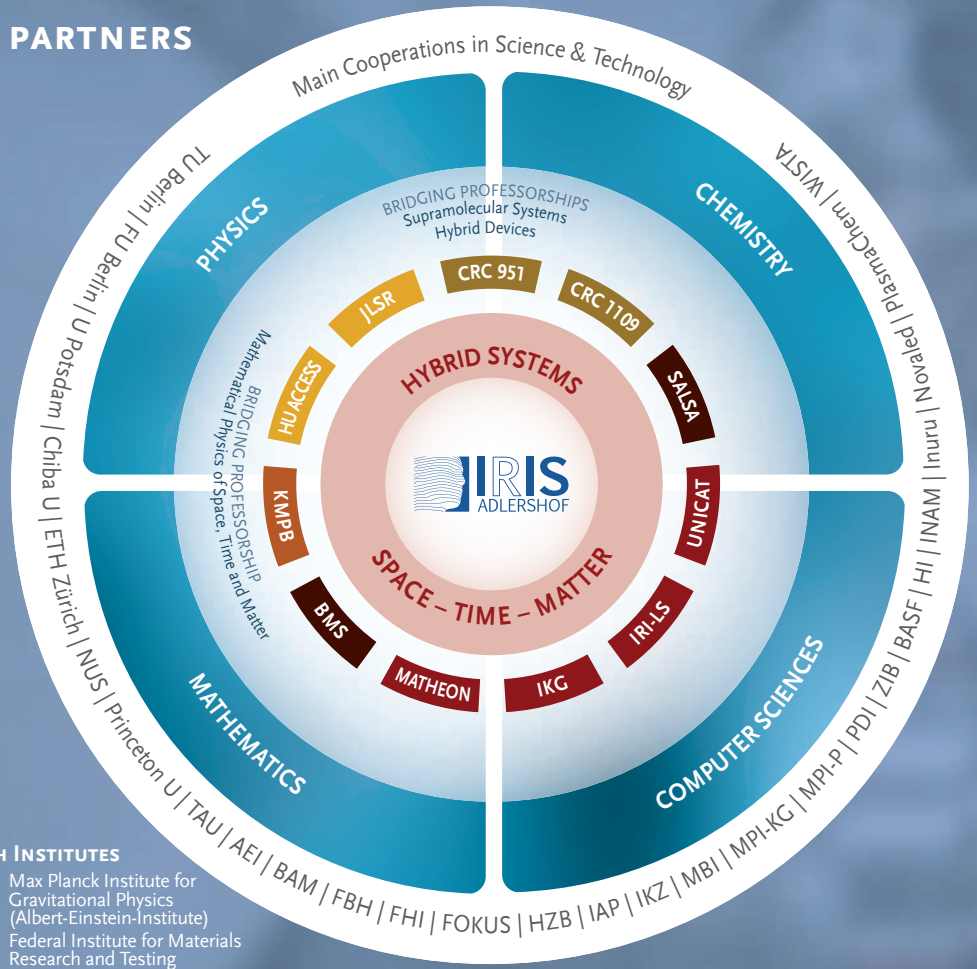
Our partners



Research Institutes

AEI	Max Planck Institute for Gravitational Physics (Albert-Einstein-Institute)
BAM	Federal Institute for Materials Research and Testing
FBH	Ferdinand-Braun-Institut, Leibniz-Institut für Höchst-frequenztechnik
FHI	Fritz-Haber-Institut der Max-Planck-Gesellschaft
FOKUS	Fraunhofer Institute for Open Communication Systems
HZB	Helmholtz-Zentrum Berlin für Materialien und Energie GmbH
IAP	Fraunhofer Institute for Applied Polymer Research
IKZ	Leibniz Institute for Crystal Growth
KMBP	Kolleg Mathematik und Physik Berlin
MBI	Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy
MPI-KG	Max Planck Institute of Colloids and Interfaces
MPI-P	Max-Planck-Institute for Polymer Research
PDI	Paul-Drude-Institut für Festkörperelektronik
ZIB	Konrad-Zuse-Zentrum für Informationstechnik Berlin

Universities

TU Berlin	Technische Universität Berlin
FU Berlin	Freie Universität Berlin
U Potsdam	Universität Potsdam
Chiba U	Chiba University, Japan
ETH Zürich	Swiss Federal Institute of Technology Zurich
NUS	National University of Singapore
Princeton U	Princeton University, USA
TAU	Tel Aviv University, Israel

Industrial Partners

BASF	BASF - The Chemical Company
HI	Humboldt Innovation GmbH
INAM	Innovation network for Advanced Materials
Inuru	Inuru GmbH
Lenswista	LensWista AG
Novaled	Novaled GmbH
Osram	OSRAM GmbH
PlasmaChem	PlasmaChem GmbH
WISTA	WISTA Management GmbH

Joint Research Projects

BMS	Berlin Mathematical School
CRC 951	Collaborative Research Center 951: Hybrid Inorganic/Organic Systems for Opto-Electronics
CRC 1109	Collaborative Research Center 1109 Understanding of Metal Oxide/Water Systems at the Molecular Scale
HU Access	Humboldt Access - Open Laboratory for Advanced Materials
HZMO	Humboldt Center for Modern Optics
IKG	Cluster of Excellence Image Knowledge Gestaltung
IRI-LS	Integrative Research Institute (IRI) for the Life Sciences
JLSR	Joint Laboratory for Structural Research
MATHEON	Research Center Matheon
SALSA	School of Analytical Sciences Adlershof
UNICAT	Cluster of Excellence - Unifying Concepts in Catalysis

IRIS ADLERSHOF

HUMBOLDT-UNIVERSITÄT ZU BERLIN

Humboldt-Universität zu Berlin obtains a Modern Research Building for Hybrid Systems in Optoelectronics and Nanoanalytics

www.iris-adlershof.de

Novel hybrid systems needed

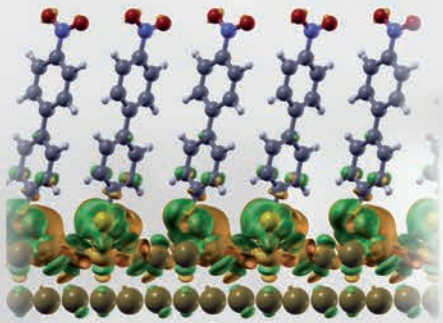
More efficient light sources and solar cells, more differentiated diagnostic and data processing systems: The steady and rapid progress in the field of microelectronics and optical technologies sets the pace for numerous innovations, without which it will be impossible to tackle the great challenges of our times.

While the well-established semiconductor technology is reaching its limits, particularly where multifunctionality as well as sustainable production processes and energy-efficient operation of the relevant components are concerned, the transition to nanometer-scale structured systems composed of different organic and inorganic materials opens up novel properties and new applications.

Research at IRIS Adlershof

Within the framework of its Integrative Research Institute for the Sciences IRIS Adlershof, the Humboldt-Universität zu Berlin has initiated a research project on novel hybrid systems composed of inorganic semiconductors, conjugated organic molecules and metallic nanostructures in the centre of one of the biggest science parks worldwide. First of all, the project focuses on gaining a basic understanding of the relationship between structure, properties and functions of the hybrid systems.

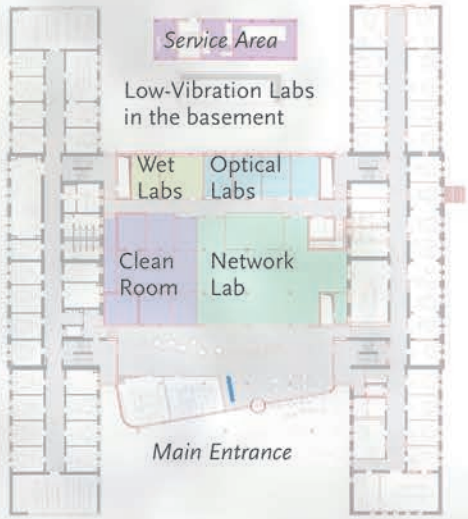
The findings will then lead to the development of prototype electronic, optoelectronic and photonic components.



New Research Building coming 2018

The German Council of Science and Humanities highlighted the research programme as “highly convincing, coherent and [...] sustainable by taking a long-term view”. Funding for a modern research building of approximately 4500 m² for 140 specialists has been recommended.

The research building is currently built at the Adlershof Science and Technology Park, in close proximity to the Departments of Physics and Chemistry of Humboldt-Universität and also near numerous innovative research institutes and companies.



Open for our Partners

Based on an open lab concept, where IRIS-researchers, start-up companies, and industrial partners work together in one lab, we have established Humboldt Access within IRIS to close the value-chain, by optimizing knowledge transfer between individuals with different focus. Innovative high-tech enterprises and research institutes are invited to collaborate by sending their own personnel.