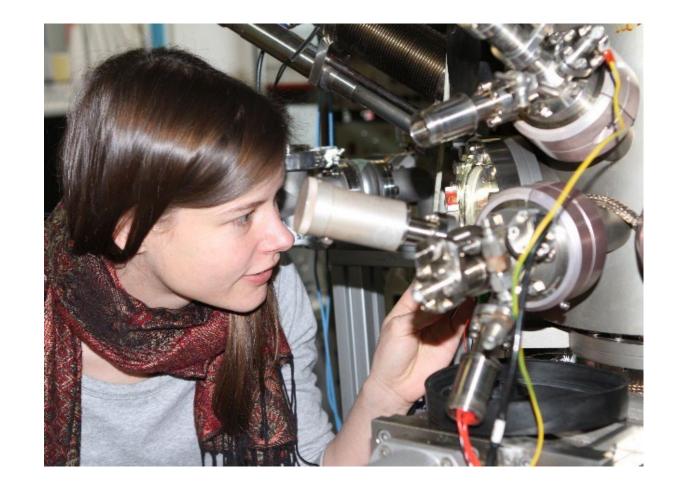




Schedule

- University & Department
- Master of Science & French-German
 Double-Degree Master's Program
- Dates & Contacts
- Career Perspectives



About Freie Universität Berlin

- public university
- no tuition fees
- excellent research



About Department of Physics

- 75 years of expertise
- 30 research groups
- 200 master students, 60% from abroad

Global Ranking by Subject

- No. 89 in the THE Ranking (2023)
- No. 113 in the QS Ranking (2024)

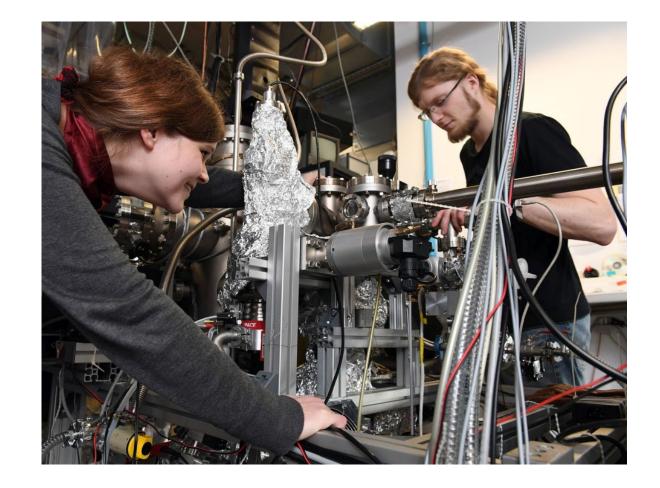




Program's Structure

Masters Program

- English only
- 4 semesters
- research-oriented



Requirements

- at least B2 English language proficiency
- no GPA
- equivalent B. Sc. in Physics



Program's Structure

Advanced Phase

- 2 semesters
- lab courses
- lectures & seminars

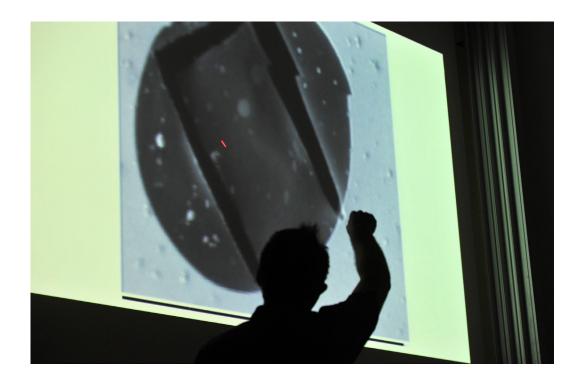


Research Phase

- 2 semesters
- join a research group
- master thesis

Courses

Lectures



Seminars



Lab Courses

Some experiments

- Pulsed Nuclear Magnetic Resonance (NMR)
- Photoelectron spectroscopy (PES)
- Raman Scattering

•



Recommended schedule

2.1. Sample programme plan for the Master's degree programme in Physics

The modules of the first and second semesters may be taken in any order. Students are recommended to divide the work load evenly between the two semesters.

1st semester 30 CP	2nd semester 30 CP	3rd semester 30 CP	4th semester 30 CP	
Advanced phase		Research phase		
Compulsory module Advanced Laboratory Course for Master Students (10 CP)	Compulsory module Selected Topics in Physics (5 CP)	Compulsory module Scientific Specialisation (15 CP)		
Compulsory elective area 20 CP (at least one module from Theoretical Physics 10 CP)		Compulsory module	Master's thesis with accompanying seminar (30 CP)	
Elective area 10 CP	Elective area 15 CP	Methodology and Project Planning (15 CP)		

Study Regulations

www.physik.fu-berlin.de/master

Homepage > Study > Master of Science

Master in Physics

- . Degree Master of Science (M. Sc.)
- · Research-oriented
- . Following on the Bachelor
- Provides entry into doctoral programs
- Duration 4 semesters
- Language English
- Beginning winter and summer semester
- No tuition fees

Students acquire specialized knowledge in diverse fields of physics, deepen their understanding of scientific methods and strengthen their expertise in theoretical and experimental physics.

Excellent research community

- . As a master student, you will be a part of the cutting-edge research at our university.
- . You will receive individual support from instructors and professors.
- . You will benefit from our well-equipped laboratories and international networks.

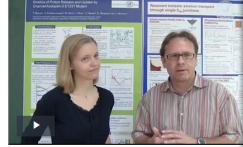
Requirements

- Bachelor of Science in Physics or similar degree*
- Certified English language proficiency at level B2 or higher

* Your bachelor's degree must be equivalent to the bachelor's degree in physics of the Freie Universität Berlin

Apply for Master's Program

Graduate in Physics



Prof. Dr. Katharina Franke and Prof. Dr. Joachim Heberle

Physics Master's Program — Unleash a Scientist Inside of You

If you admire the complexity of things and strive for new cognitive challenges every day, then you will fit right into our community. Our students and graduates have curios their blood and the perpetual question "Why?" in their minds. The research topics inside the department include quantum computing, nanoscience, biological nanomac quantum information, and many others.

DOCUMENTS AND LINKS

Please note that only German versions are legally binding.

- > Study regulations for the Master's Programme in Physics English, 2020
- Access Statute German, Zugangssatzung, 2022
- General Information Concerning Application for Master's Programs
- List of non-physics courses in elective area English
- Study Plan during your Master's: first year
- > Form Research phase registration English, please print double-sided
- Form Exam "Scientific Specialization" German
- Recommendations: Good scientific practice for reports and theses
- Scientific Integrity
- > Flyer Masters' Program in Physics

Study Regulations

1. Compulsory area

Module: Advanced Laboratory Course for Master Students

University/Department/Teaching Unit: Freie Universität Berlin/Physics/Physics

Responsible for the module: Module lecturers

Admission requirements: none

Qualification aims: The students have mastered more complex issues in physics. They are familiar with and can apply the more advanced experimental methods used in current physics research to solve these issues. They are able to master a new field of work in a short time from current specialist literature and to communicate it comprehensibly in presentations.

Content: Study of literature as introduction to a new field; close study of physics issues, modern experimental methods and measurement technologies; documentation of experimental process; critical evaluation and discussion of findings; written presentation of issues, evaluation and findings; presentation and explanation of experimental methods, their possibilities and limitations. Topic fields: solid state physics (magnetism, surface physics, superconductivity), atomic and molecular physics,

nuclear physics, biophysics.

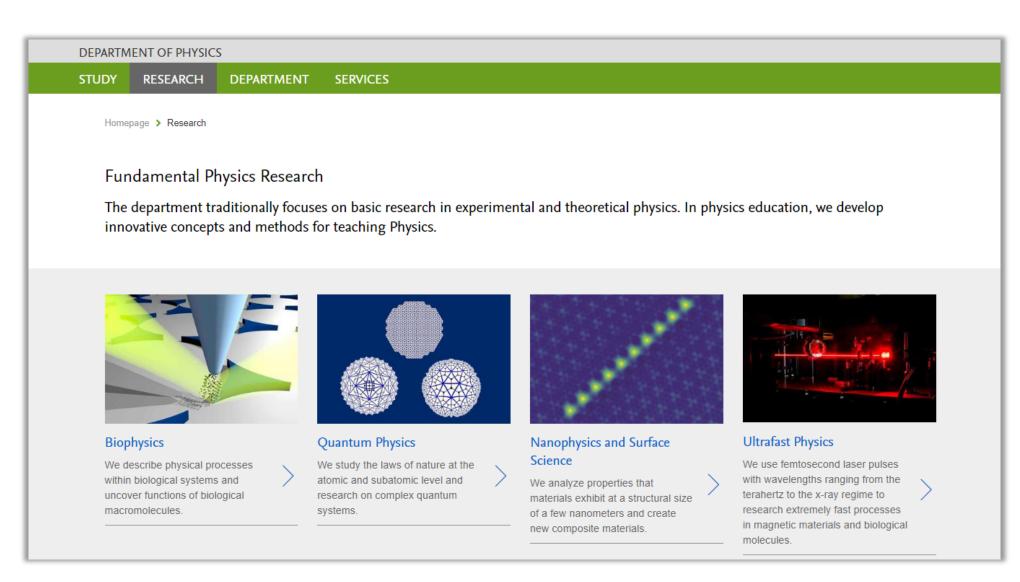
Teaching and learning units	Compulsory attendance (Semester hours per week = SH)	Forms of active participation	Study time (hours)			
Practical	6	Carrying out and documenting practical experiments	Attendance at practical (P) 90 Practical (P) preparation and 150 follow-up			
Seminar	2	Lecture of approx. 20 minutes, participation in discussion	Attendance at seminar (S)		30 30	
Module examination		none				
Module language		English (or German)				
Compulsory regular attendance		Yes				
Study time, total hours		300 hours		10 CP		
Duration of module		One semester				
Module offered		Every semester				
Application		Master's degree programme in Physics				

DOCUMENTS AND LINKS

Please note that only German versions are legally binding.

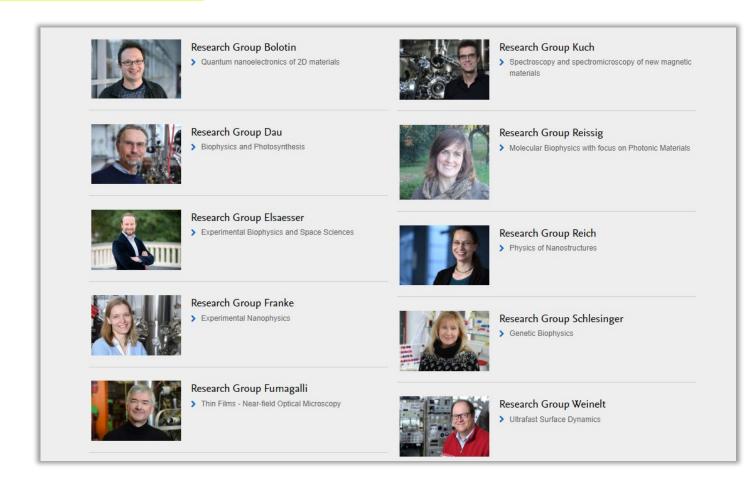
- > Study regulations for the Master's Programme in Physics English, 2020
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- Flyer Masters' Program in Physics

Research Focus



Research Focus

www.physik.fu-berlin.de/research



Scientific Network

Adjunct Professors

- > Dr. Silke Christiansen, Adjunct Professor, Fraunhofer IKTS
- Dr. Klaus Lips, Adjunct Professor, HZB
- Dr. Marc Vrakking, Adjunct Professor, MBI
- Dr. Beatriz Roldan Cuenya, Adjunct Professor, FHI / MPG
- > Dr. Hans-Joachim Freund, Adjunct Professor, FHI / MPG
- Dr. Gerard Meijer, Adjunct Professor, FHI / MPG
- Dr. Heinz-Eberhard Mahnke, Adjunct Professor, HZB
- > Dr. Jürgen Renn, Adjunct Professor, MPG
- Dr. Matthias Scheffler, Adjunct Professor, FHI / MPG
- Dr. Martin Wolf, Adjunct Professor, FHI / MPG
- > Dr. Michael Giersig, Adjunct Professor
- Dr. Dirk Manske, Adjunct Professor, MPI





Fraunhofer Institute for Ceramic Technologies and Systems IKTS

MAX BORN INSTITUTE

for Nonlinear Optics and Short Pulse Spectroscopy





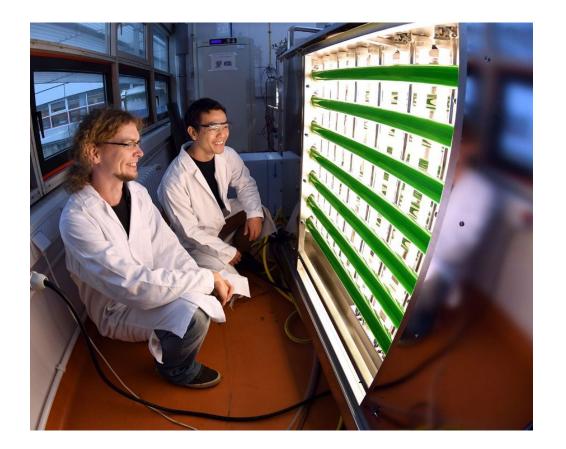
BESSY II - Electron Storage Ring

Measuring times blocked for Freie Universität Berlin



Working side by side with scientists

- qualifying for international scientific career
- encouraging and supportive
- learn German for free
- freedom



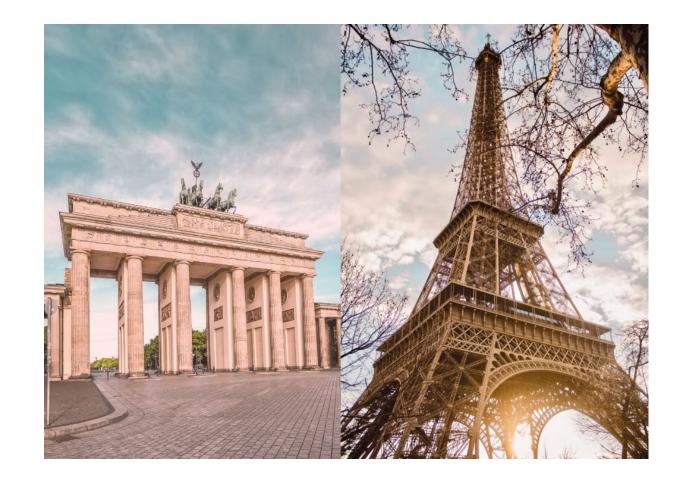


Double Degree

French-German Master's Double-Degree

- Two diplomas in one program
- Institut Polytechnique de Paris
 - + Freie Universität Berlin





French-German Master's Double Degree

1st year

Berlin

60 ECTS

2nd year

Paris

60 ECTS

French-German Master's Double Degree

- mandatory enrollment as FU student
- program in English
- German and French at least A2 GeR
- double application (Freie Universität and IP)





Application, Dates & Contacts

Application

www.physik.fu-berlin.de/master

Master in Physics

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- Research-oriented
- · Following the bachelor's program
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- Bachelor of Science in Physics or a similar degree*
- Certified English language proficiency at level B2 or higher

Apply for Master's Program

Application period: 15.04.2024 - 15.08.2024

^{*} Your bachelor's degree must be equivalent to the bachelor's degree in physics of the Freie Universität Berlin

Application Period

Winter semester 2024/25

Summer semester 2025

15.04.2024 - 15.08.2024

01.12.2024 - 15.02.2025

Hurry up!

- 6 weeks in advance
- transcript of 2/3 of records



Student advisory

Leo

studienberatung@physik.fu-berlin.de

Friday 1-2 pm

Online counselling available!



Master's Program Coordinator

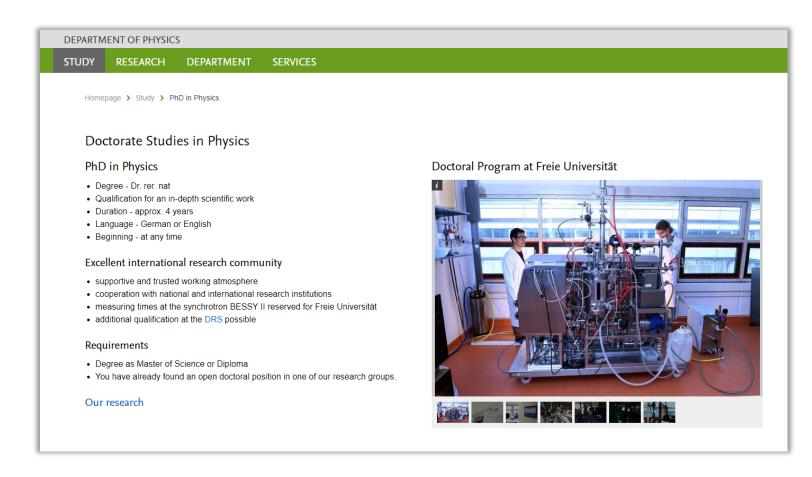
Prof. Dr. Kirill Bolotin masterstudium@physik.fu-berlin.de

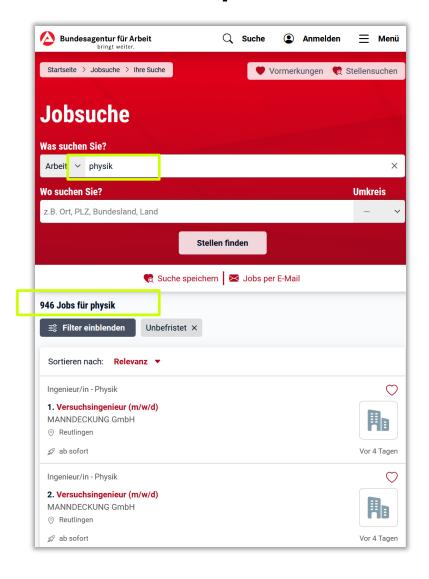




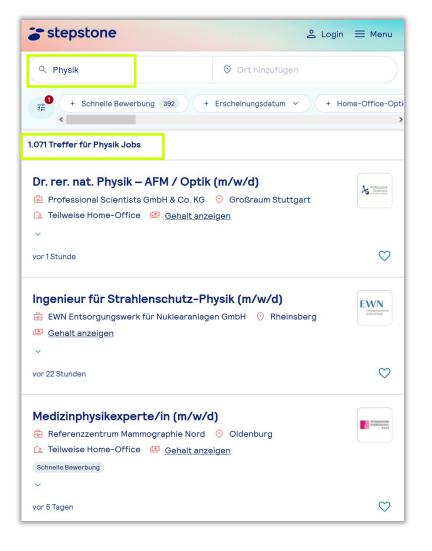
Postgraduate Program

www.physik.fu-berlin.de/phd-physics





22.05.2024
permanent
positions
open



Johann Egger

Securenergy, Project manager for commercial scale PV-projects



Dr. Mathias MewsBosch, Development Engineer



Dr. Stefanie KreftMechanical Engineering, industrial sealing technology



Matts Nissen
KPMG, Senior Associate
Financial Services – Risk &
Treasury



Dr. Lea BognerPhysicist as technology transfer advisor



Dr. Bianca LimInstitute for Solar Research,
Strategic Planning/Business
Development





www.physik.fu-berlin.de/pathways

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- sportsparties





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Looking forward to seeing you!



