

HOCHSCHULE RHEINMAIN

UNIVERSITY OF APPLIED SCIENCES

situated in

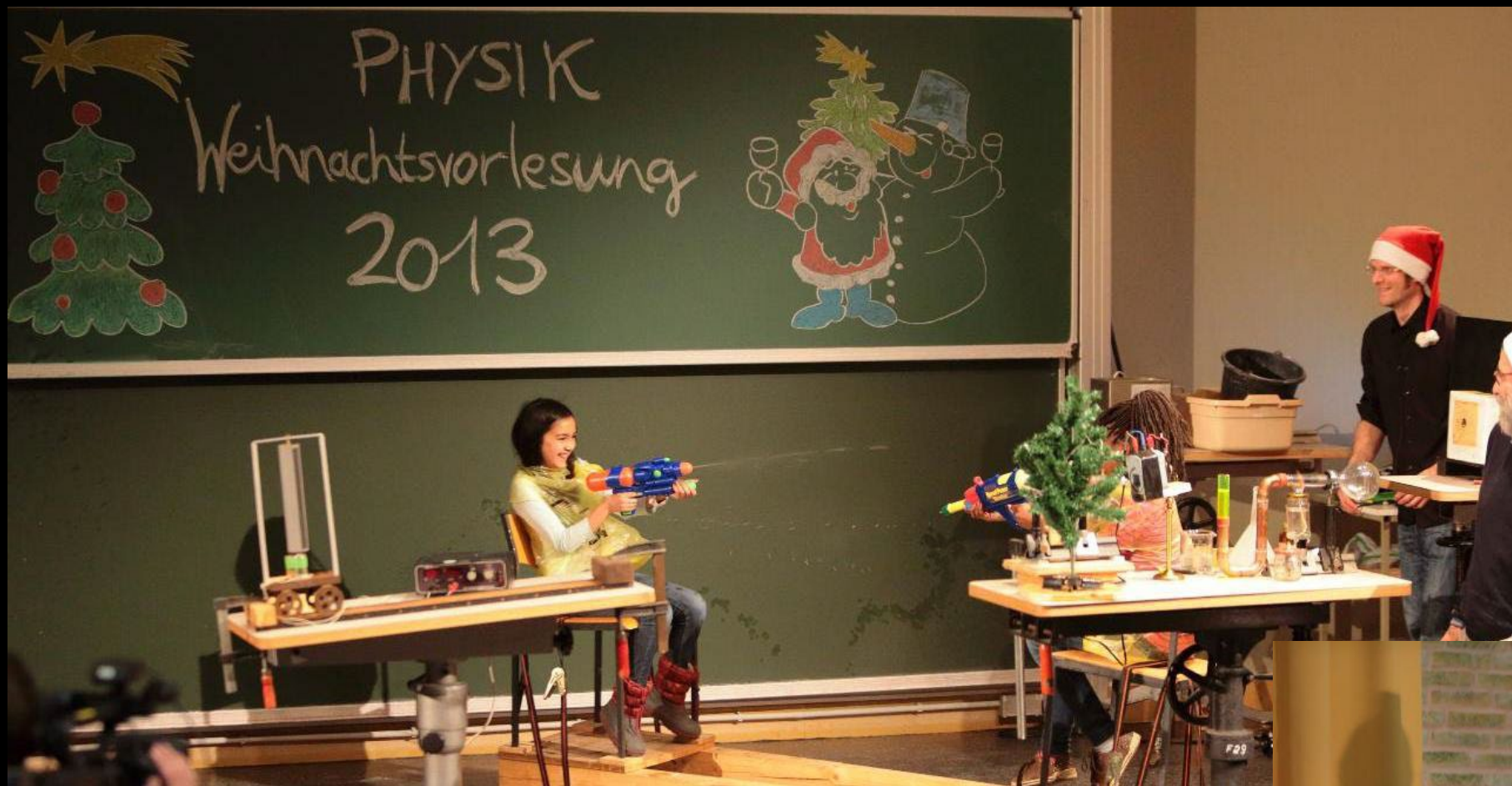
Wiesbaden at the river Rhine
&
Rüsselsheim at the river Main

Prof. Dr. Stefan Kontermann

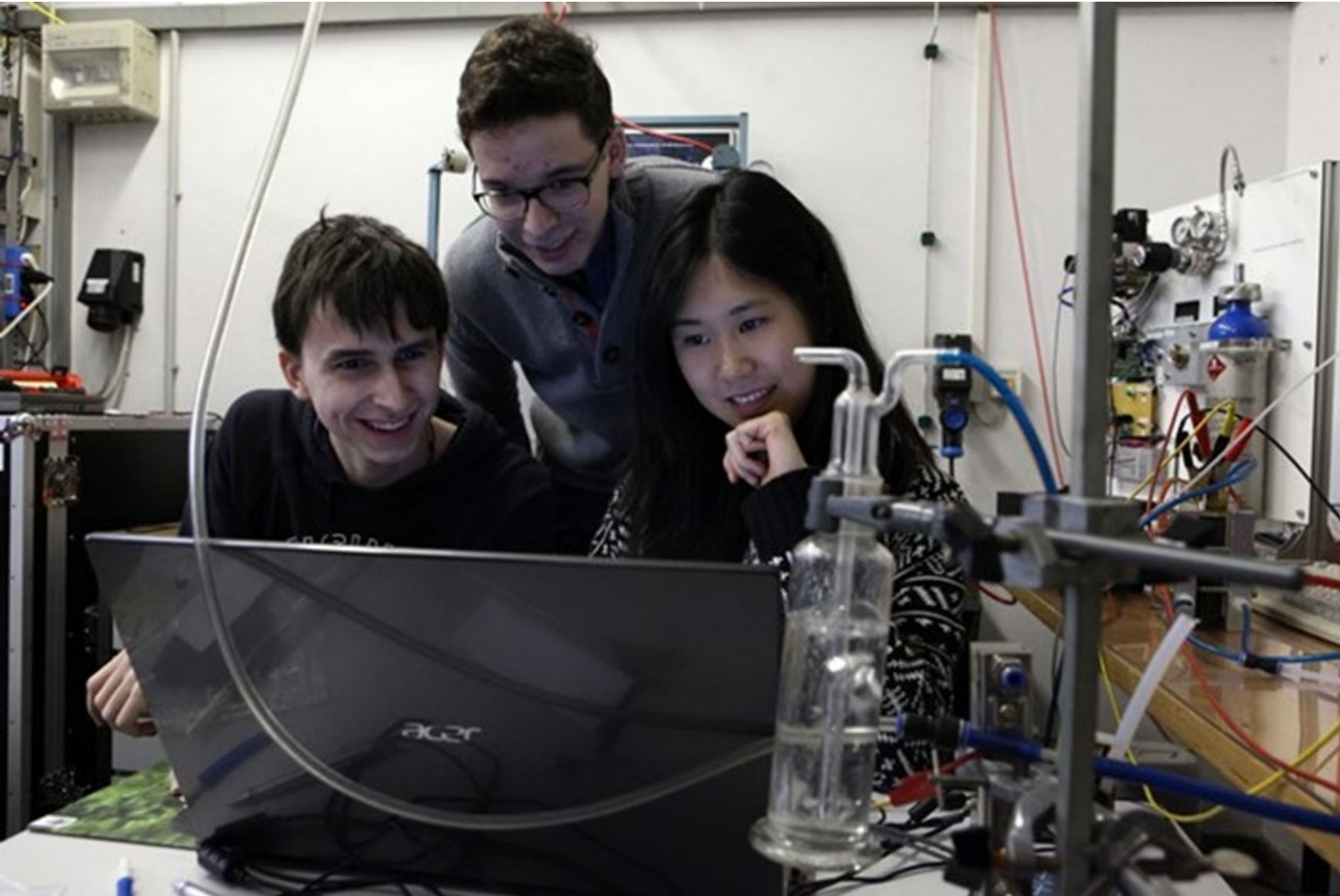


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|------------|--|---|
| 1999-2004 | Physics (M.Sc.) | University of Karlsruhe, Germany und
University of Adelaide, Australia |
| 2005-2009 | PhD in Physics | Fraunhofer Institute for solar Energy Systems, Freiburg, Germany
Laserprocesses for Solar cells |
| 2010-2014 | Head of Group | Technical University of Clausthal, Germany
Fraunhofer Heinrich Hertz Institute, Goslar/Berlin, Germany
„Ultrashort pulses for material functionalization“ |
| Since 2015 | Professor for Technical Optics and photonics
Head of master's program „Applied Physics (M.Sc.)“
University of Applied Science Hochschule RheinMain | |

Contact details: stefan.kontermann@hs-rm.de



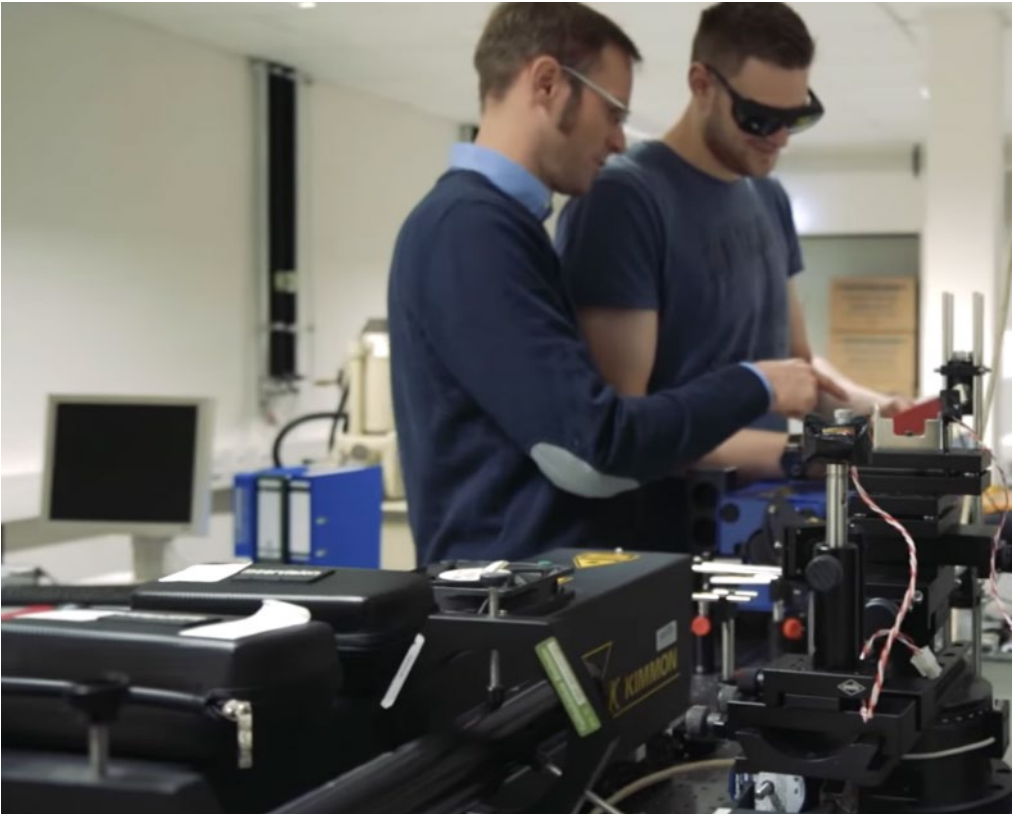
We are looking for physics students!



We are looking for physics students!



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What's so special about the master's of physics (M.Sc.)?

Semester	1	2	3
	Particles and Quanta (5 CP) (winter semester)	Statistical and Solid State Physics (5 CP) (summer semester)	Master's Thesis (incl. Colloquium) (30 CP) (every semester)
	Modelling and Experiment Design (5 CP) (winter semester)	Electrodynamics and Photonics (5 CP) (summer semester)	
Selection from Specialisation (20 CP) (every semester)			
	Advanced Mathematics (5 CP) (every semester)	Research Project (10 CP) (every semester)	
	Elective Professional Skills (5 CP) (every semester)		

What's so special about the master's of physics (M.Sc.)?

Semester	1	2	3	
	Particles and Quanta (5 CP) (winter semester)	Statistical and Solid State Physics (5 CP) (summer semester)	Master's Thesis (incl. Colloquium) (30 CP) (every semester)	Electives Professional Skills (1 of 5)
	Modelling and Experiment Design (5 CP) (winter semester)	Electrodynamics and Photonics (5 CP) (summer semester)		German as a Foreign Language 1 (5 CP) (every semester)
Selection from Specialisation (20 CP) (every semester)				Innovation Management & Entrepreneurship (5 CP) (summer semester)
Advanced Mathematics (5 CP) (every semester)	Research Project (10 CP) (every semester)			AI Laboratory (5 CP) (summer semester)
Elective Professional Skills (5 CP) (every semester)				Comprehensive Competencies (5 CP) (every semester)
				Scientific Communication (5 CP) (winter semester)

What's so special about the master's of physics (M.Sc.)?

Title of Specialisation		
"Photonics and Quantum Technology"	Laser Physics (5 CP) (winter semester)	Quantum Physics and Technology (5 CP) (summer semester)
"Micro- and Nano-Technology"	Microfluidics and Microfabrication (5 CP) (winter semester)	Surfaces and Nanotechnology (5 CP) (summer semester)
"Energy and Hydrogen Technology"	Sustainable Energy Systems (5 CP) (winter semester)	Energy System Components and Signal Processing (5 CP) (summer semester)

What's so special about the master's of physics (M.Sc.)?



<https://www.hs-rm.de/en/engineering/degree-programs/masters-degrees/applied-physics>

Which Bachelor's degrees fit?

- Physics, Applied Physics, Technical Physics, Medical Physics
- Engineering Bachelor's degrees containing especially semiconductor technology optics, Photonics, microtechnologies, hydrogen energy
- Other subject related technical oriented Bachelor's degrees

What else?

- English: Bachelor course 100% in english, certificates and required points: see web page
- Technical discussion / interview

Your benefits

- No tuition fees (only student service fee ~ 50 Euros / months, can be covered by scholarship)
- Small lectures < 20 people
- Small learning groups
- Good student-teacher ratio => More personal contact with professors
- Application-oriented studies
- Research is also conducted and included
- Theses often written in a company

Application:
for wintersemester 2026/2027 open May 2026 – 15 July 2026
for summer semester 2027 open November 2026 – 15 January 2027

What's so special about Hochschule RheinMain?



What's so special about Hochschule RheinMain?



What's so special about Hochschule RheinMain?



What's so special about Hochschule RheinMain?

and what else?



RESEARCH

4 doctoral programs, **4 research centers**, 26 research groups

Doctoral programs
with the right to
award doctorates:

Applied Computer Sciences

System-integrated Engineering

Mobility and Logistics

Social Work

Research centers:

SSMT

“Smart Systems for Human and
Technology“

(Qtech)

“Quantum technologies and
microelectronics“

AZARE

“Application Center for Drive Systems
Using Renewable Energy Sources (AZARE)“

RITMO

“Rhein-Main Institute for Transformative
Sciences in Mobility and Logistics“

FoRM

“RheinMain Research Center for
Professionalism in Social Work“

Research areas:

- Smart User Interface Design and Technology
- Smart Business & Digital Transformation
- Smart Tools for Software Engineering
- Learning and Visual Systems
- Internet of Smart Things

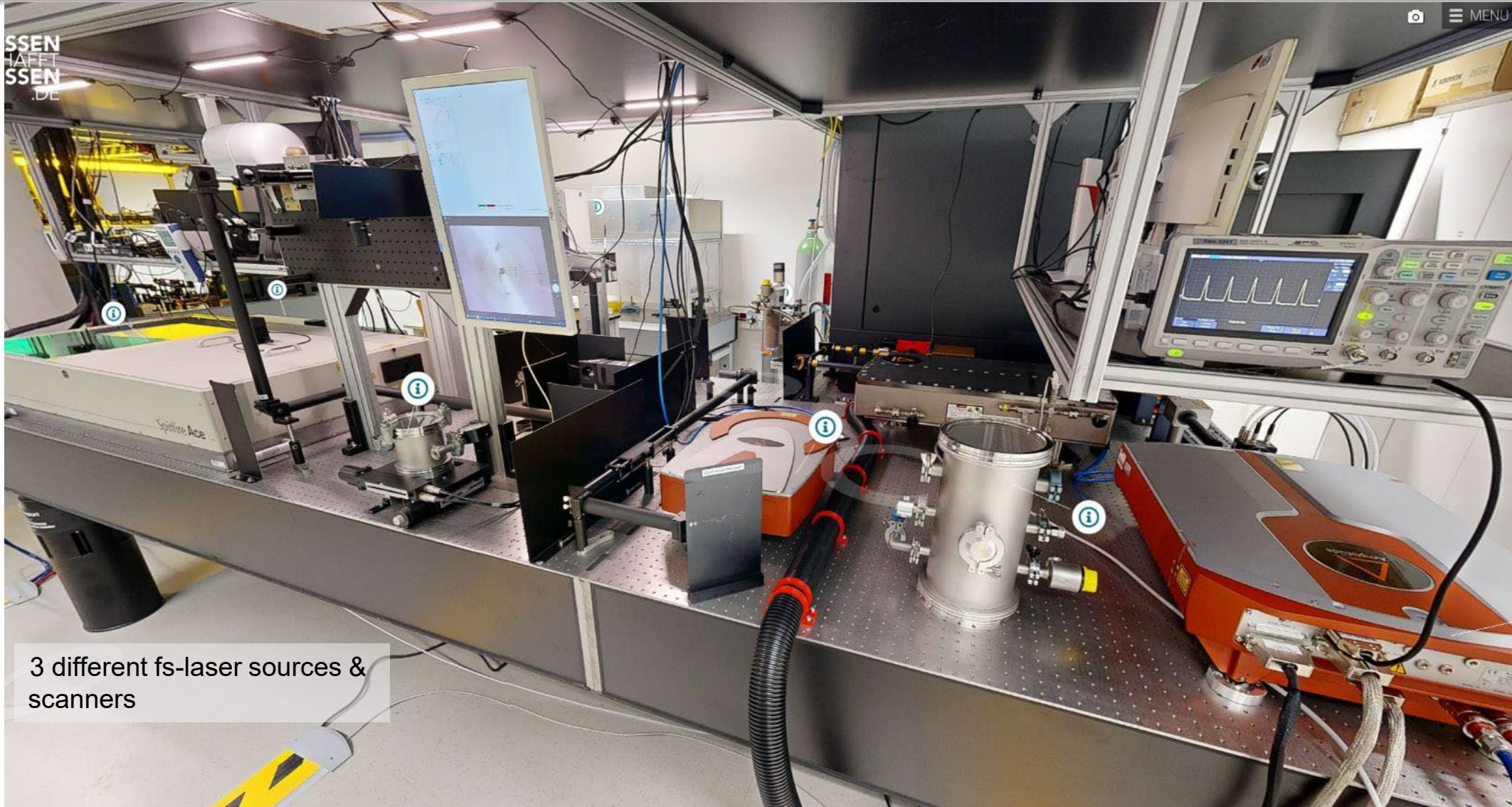
- Key technologies
- Energy conversion technologies
- Infrastructure technologies
- Society

- Transportation
- Logistics
- Mobility

- Educational Equality and Health Literacy
- Difference & Power
- Transformative Community Development



IMtech Femtosecond laser lab: Microstructuring by lasers



3 different fs-laser sources & scanners

Applied Physics (M.Sc.): best scholarship opportunities for international students

- For a Master's in Applied Physics, you have several prestigious scholarship paths. Since we are in April 2026, you are right at the finish line for some 2026 applications and in the perfect window to prepare for the 2027 intake.
- **1. DAAD Study Scholarships (All Academic Disciplines)**
- This is your **best option** for a pure Applied Physics degree. Unlike the EPOS program, this scholarship allows you to choose **any** Master's program at a state-recognized university.
- **Target Group:** Excellent graduates with a "First Class" or "Upper Second Class Honours" degree.
- **Benefits:** ~€992/month, travel allowance, health insurance, and a preparatory German language course.
- **Deadline:** Usually **October/November** for a start in the following year (October 2027).
- **Work Experience:** Not required.

Applied Physics (M.Sc.): best scholarship opportunities for international students

■ 2. Political Foundations

- These foundations look for students with high academic marks and social/political engagement.
- **Friedrich-Ebert-Stiftung (FES):** Very supportive of international students.
 - **Status:** The deadline for the upcoming winter semester is often around **March 20th**
- **Heinrich Böll Foundation:** Great if your interest in physics leans towards **renewable energy, sustainability, or quantum computing**. They value "green" values and diversity.
- **Konrad-Adenauer-Stiftung (KAS):** They have a strong presence in **lot of countries**. They focus on future leaders. Check their local office for specific "Sur-Place" or international scholarship calls.

Applied Physics (M.Sc.): best scholarship opportunities for international students

■ 3. KAAD (Catholic Academic Exchange Service)

- Despite the name, this is a major scholarship provider for international students of various Christian denominations (and occasionally others if recommended).
- **Focus:** Students who want to gain expertise in Germany and then return abroad to contribute to the local scientific community.
- **Deadline:** Applications are usually processed twice a year; the next major cut-off is **June 2026**.

■ 4. The "Deutschlandstipendium" (University-Specific)

- Once you are admitted to a university (like TU Munich, RWTH Aachen, or KIT), you can apply for this scholarship.
- **Amount:** €300 per month.
- **Benefit:** It's often easier to get than a full DAAD scholarship and can be combined with other part-time work (HiWi positions) in physics labs.

Applied Physics (M.Sc.): best scholarship opportunities for international students

Summary of Benefits

Feature	DAAD (General)	Political Foundations	KAAD
Monthly Allowance	€992	~€934 + allowances	Varies (~€900+)
Tuition Fees	Covered (if any)	Covered (if any)	Covered (if any)
Airfare	Included	Often included	Included
Primary Criteria	Grades & Research	Grades & Social Values	Grades & Return to Kenya

Applied Physics (M.Sc.): best scholarship opportunities for international students

Critical Requirements for international students

To be a successful candidate, you will need to prepare the following:

1. **Academic Excellence:** A Bachelor's degree in Physics or a related field
2. **Language Proficiency:** Applied Physics is **taught in English**.
3. **Letter of Motivation:** This is vital. You must explain why you chose a specific field (e.g., Photonics, Nanotechnology, or Biophysics)

Thank you.

Questions?

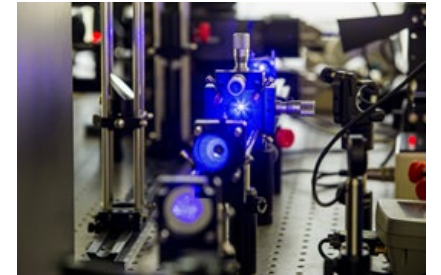
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Possible cooperation Scenarios Technical University of Mombasa - HSRM

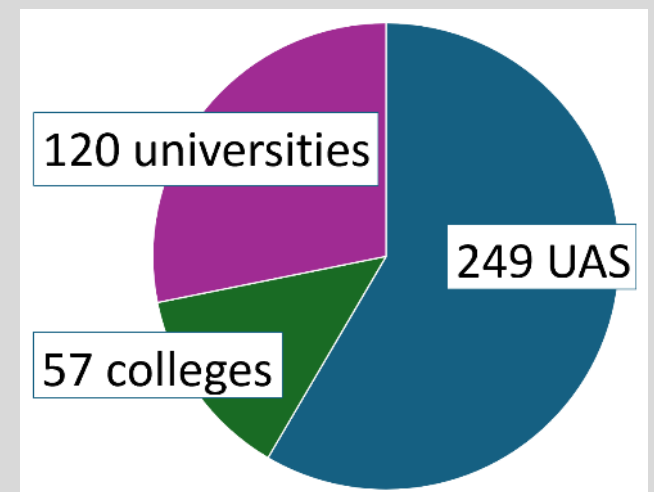
- Possibilities for international students in Germany (Applied Physics M.Sc.) at HSRM:
 - a research project within the master's program
 - one semester of lectures
 - the master thesis
- International and German students going for the whole master's program abroad
- Joint research projects

Focus of Universities of Applied Sciences:

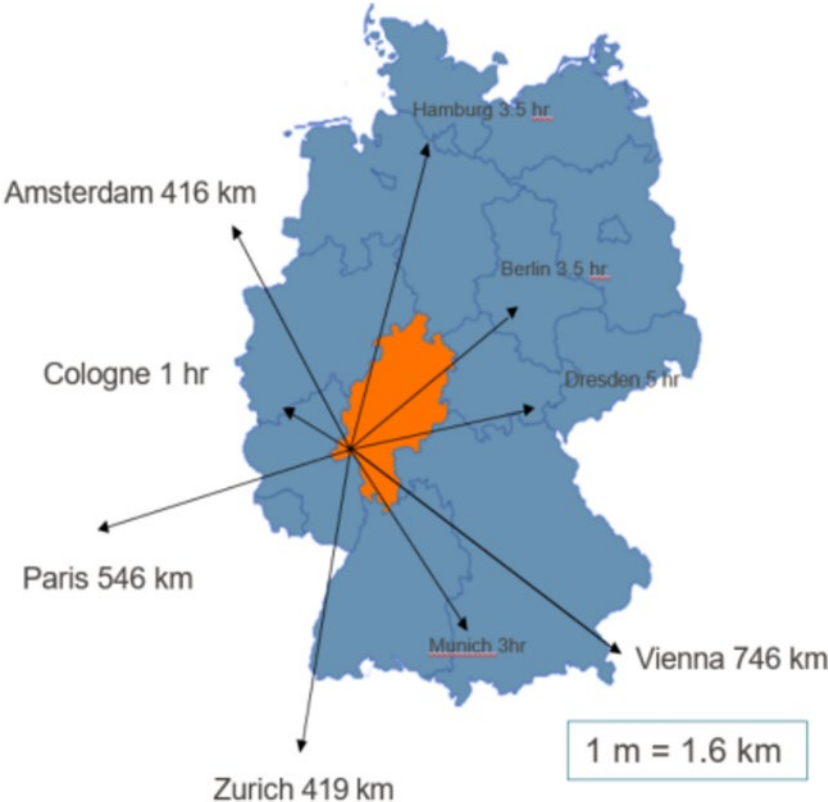
- **Application-oriented research**
- **Close cooperation with industry/public sector in their region**
- **Recruitment of professors from industry**



UAS hardly present in international rankings, because of rather small size in student and staff



HSRM IN THE HEART OF THE BEAUTIFUL RHINE-MAIN AREA



**Foundation
Locations**

1971
6 campuses in two cities

5 Faculties

- Applied Social Sciences
- Architecture and Civil Engineering
- Design Computer Science Media
- Engineering Sciences
- Wiesbaden Business School

Degree Programs

38 Bachelor & 32 Master programs

Doctoral Programs

- **Applied Computer Sciences**
- **Mobility and Logistics**
- **Social Work**
- **System-integrated Engineering**

Number of Students

approx. 11,800

Number of Staff

approx. 1,100 (approx. 280 Professors)

**International
Collaborations in Africa**

MOI University, Eldoret, Kenia
Technical University of Mombasa, Kenia (in development)
Namibia University of Science and Technology, Windhoek



Bleichstraße/Bertramstraße,
Wiesbaden



Rüsselsheim Campus



Kurt-Schumacher-Ring,
Wiesbaden



Unter den Eichen,
Wiesbaden



Rheinstraße, Wiesbaden



Bleichstraße, Wiesbaden

DEGREE PROGRAMS

BACHELOR'S Programs

[Applied Computer Science \(B.Sc.\)](#)

[Applied Physics \(B.Sc.\)](#)

Architectural Heritage Conservation (B.Sc.)

Architecture (B.Sc.)

Business & Law (in Accounting and Taxation, LL.B.)

Business Administration (B.A.)

Business Informatics (B.Sc.)

Civil Engineering (B.Eng.)

Communications Design (B.A.)

[Computer Engineering \(B.Sc.\)](#)

Cooperative Degree Program Electrical Engineering (B.Eng.)

Cooperative Degree Program Mechatronics (B.Eng.)

Cooperative Degree Program Media Engineering (B.Eng.)

Digital Business Management (B.Sc.)

Education in Childhood and Youth (B.A.)

Electrical and Aeronautical Engineering (B.Eng.)

Electrical Engineering (B.Eng.)

Environmental Engineering (B.Eng.)

Financial Services (dual, B.Sc.)

Health Care Economics (B.Sc.)

Industrial Engineering & International Management (B.Eng.)

Industrial Engineering (B.Eng.)

Insurance & Banking (B.Sc.)

Interdisciplinary Engineering (B.Eng.)

Interior Architecture (B.A.)

International Management (B.A.)

Mechanical Engineering (B.Eng.)

Media Computer Science (B.Sc.)

Media Engineering (B.Eng.)

Media Management (B.Sc.)

Media: Conception & Production (B.A.)

Mobility Management (B.Eng.)

Real Estate Management (B.Eng.)

Social Work (B.A.)

Social Work: Health, Social Law & Social Management (B.A. / LL.B.)

Social Work: BASA-Online (B.A.)

MASTER'S Programs

Advanced Media Technology (M.Eng.)

[Applied Physics \(M.Sc.\)](#)

Architectural Heritage Conservation (M.Sc.)

Architecture | Building Revitalization and Transformation (M.Sc.)

Automotive Engineering, Energy Technology and Production Planning (M.Eng.)

Biological and Environmental Technology (M.Eng.)

Business Informatics (M.Sc.)

Civil Engineering & Construction/ Management (M.Eng.)

[Computer Science – Software and System Engineering \(M.Sc.\)](#)

Controlling and Finance (M.Sc.)

Crossmedia Spaces (M.A.)

Digital Business Management (M.Sc.)

Electrical Engineering - Connected Systems (M.Eng.)

Electrical Engineering and Management – part time (M.Eng.)

Environmental Management and Urban Planning in Metropolitan Areas - UMSB (M.Eng.)

Environmental Management and Urban Planning in Metropolitan Areas - part-time (M.Eng.)

Health Care Management (M.Sc.)

Industrial Engineering – part time (M.Eng.)

Insurance & Banking (M.Sc.)

Interior Architecture – Conceptual Design (M.A.)

International Management (M.A.)

Media & Design Management (M.Sc.)

Media Computer Science - Intelligent and Interactive Systems (M.Sc.)

Medical Engineering (M.Sc.)

Product Development and Manufacturing – part time (M.Eng.)

Real Estate (M.Sc.)

Sales and Marketing Management (M.A.)

Screen Arts (M.A.)

Social Work (M.A.)

Social Work - Development and Organization of Social Spaces (M.A.)

Social Work - Social Work and Education (M.A.)

Sustainable Mobility (M. Eng.)

