

Going abroad in Europe

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TUM School of Natural Sciences
Study Programs in Chemistry & Physics



Garching, 22 November 2024

Agenda

15.00 h – Information about the Erasmus+, SEMP and IROP programs
and how to plan a stay abroad

16.00 h – Julia Holl: **Université Grenoble Alpes + STMicroelectronics**

16.15 h – Jacob Selbertinger: **Universidade de Lisboa**

16.30 h – Erik Hundeshagen: **University of Gothenburg**

16.45 h – Informal get-together

Erasmus+ Program

Financial support for study-related stays abroad in European countries (and limited funding overseas):

Study at a partner university in chemistry or physics – **SMS**

Internship, incl. thesis and graduate internships, in a company, research institution or university – **SMP**

Planned stay (SMS + SMP) of a maximum duration of 12 months per study cycle.

Swiss-European Mobility Program (SEMP)

Financial support for study-related stays abroad in Switzerland, applying for the scholarship at the Swiss university:

Study at a partner university in chemistry or physics

Internship at a partner university, non-partners may also accept applications

SEMP funding is limited, „first comes, first served“ may apply

IROP at Imperial College London

Summer research project work (~8 weeks, July/August) under the supervision of researchers at ICL:

Support from IROP Team, social and cultural program to experience student life at Imperial

Currently no funding available

IROP Information Session

02.12.2024, 17h
Register to attend!

Requisites & application: https://collab.dvb.bayern/x/DR_DQ

[Flagship partnership with Imperial College London](#)

Overview

Program	Destination	Purpose	Deadline	Info
Erasmus SMS	Partner universities	Study and research	January 15 for upcoming academic year	NAT-Chemistry NAT-Physics
Erasmus SMP	Institutions within EU	Research or internship	Rolling deadline, at least four weeks before going abroad	TUM Global
Erasmus SMP	Institutions outside EU	Research or internship	Rolling deadline, at least two months before going abroad	TUM Global
SEMP	Partner universities	Study and/or research	January 15 for upcoming academic year	NAT-Chemistry NAT-Physics
IROP	Imperial College London	Research	January 15 for upcoming summer	NAT

Other options (I)

Program	Destination	Purpose	Deadline	Info
EuroTeQ courses	EuroTeQ network (at home)	Virtual study	Twice per year, see info link for details	TUM Global
ATHENS	ATHENS network	One-week study	Twice per year, see info link for details	TUM Global
PROMOS stipend	Outside Erasmus+	Self-organized stay abroad	Twice per year, see info link for details	TUM Global
Double Degree	KTH	Study and research (MSc Physics)	January 15 for upcoming academic year	NAT-Physics
DTU-TUM 1:1	DTU	Study or research (MSc Physics, only AEP)	January 15 for upcoming academic year	NAT-Physics

Other options (II)

Program	Destination	Purpose	Deadline	Info
Research Program for International Talents	École Polytechnique	Research	See info link for details	L'X
Project Mobility Students	ETH Zürich	Research	See info link for details	ETHZ
AScl International Summer Research Program	Aalto University	Research	See info link for details	AScl
CERN Summer Student Opportunities	CERN	Internship	See info link for details	CERN

Benefits of exchange programs

- No tuition fees at the partner university
- Simplified enrollment procedure
- Academic advice and social activities
- Financial support (Erasmus+ and SEMP)
- Would a full year abroad be an option? It may never be so easy again to spend a longer time abroad!

Requirements for participation (I)

- Good study progress at TUM → first study year at TUM successfully completed
- Sufficient knowledge of the language of instruction of modules/courses abroad (study plan)
- Erasmus+ grant: successful completion of ≥ 10 ETCS in subject courses at the partner university (not language courses)

Requirements for participation (II)

- Stay enrolled at TUM during the whole stay abroad – exception: Erasmus+ graduate internships
 - apply at the end of your Bachelor for a stay at the beginning of your Master!
- Stays may last from 60 to 360 days

Additional requirements

- Personal goal setting and independence:
Which are your personal, academic and language goals?
- Extensive own research and organization, resulting in a well-founded study plan or research project – abroad and embedment at TUM!

→ pay attention to differences in the semester dates!
- Application documents are evaluated in terms of form and content

You are...

- ... looking forward to challenging situations?
- ... prepared to expand your horizon?
- ... interested in cultural exchange and the improvement of your language skills?
- ... open for completely new, different things and opinions?
- ... interested on other approaches in your studies and maybe very different working methods?

You are...

- ... strong enough to accept it, when the courses that you chose do not take place or do not meet your expectations?
- ... prepared to make new friends all over the world?

And all that as well, when it does not get reflected into credits and/or good grades???

Then you are ready for a stay abroad!

Minds are like parachutes.
They only function when
they are open.

– *Sir James Dewar* –

Our partner universities – Physics (I)

Academics
TUM School of Natural Sciences
Technische Universität München

- Homepage
- Latest News
- Bachelor +
- Master +
- Lehramt +
- Study abroad -
- Outgoings Chemie
- Outgoings Physics -
- Erasmus+ SMS and SEMP -
- Infoevent 2023
- Partnerunis -
 - DTU
 - Aalto**
 - Helsinki
 - Grenoble INP
 - UGA
 - ENS Lyon
 - Montpellier
 - Sorbonne
 - Toulouse UPS

Homepage > Study abroad > Outgoings Physics > Erasmus+ SMS and SEMP > Partnerunis > Aalto

Aalto University

Finland



Locations

- [Otaniemi Campus](#) ↗, Espoo

Exchange places

TUM School of Natural Sciences

Technische Universität München

Boltzmannstr. 10
85748 Garching

Fachreferentin für Internationalisierung



Dr. Maria Eckholt
Tel.: +49 (89) 289 - 14461
Büro: [5101.EG.053](#) ↗
global_ph@nat.tum.de
[Sprechstunde](#) ↗

[Physics at Aalto](#) ↗

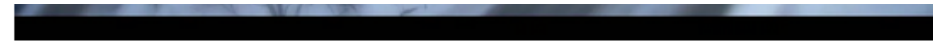
[Summer Research](#) ↗

[Experience Reports](#) ↗

[Auslands-BaföG](#) ↗

Our partner universities – Physics (II)

- UGA
- ENS Lyon
- Montpellier
- Sorbonne
- Toulouse UPS
- L’X
- TCD
- L’Aquila
- Campania
- Cagliari
- Bari
- Milano
- Milano-Bicocca
- La Sapienza
- TU/e
- RUG
- TU Delft
- Utrecht
- Bergen
- NTNU



Locations

- [Otaniemi Campus](#) , Espoo

Exchange places

- Erasmus+ Studies: 2 students, 10 months each

Places denote the maximum number of students that can be sent to the host university. Duration of the stay may be shorter or, if places are combined, longer than stated. Please also consider the overall duration allowed by the Erasmus+ program.

Study possibilities

- Erasmus+ Studies:
 - Undergraduate / Bachelor
 - Postgraduate / Master

Languages of instruction and requirements

- English

Information about studies

- [Academic calendar](#)
 - [Academic offer](#)
- You should choose courses mainly from physics.

Only for nominated students



[Experience Reports](#)

[Auslands-BaföG](#)

<https://academics.nat.tum.de/en/global/out-ph/europe/partners>

Our partner universities – Chemistry

- Homepage
- Latest News
- Before Studying
- Bachelor +
- Master +
- Lehramt +
- Exchange Programs** -
- Infoevents
- Outgoings Chemie -
- European Partners**
- Outgoings Physics +
- Incomings Chemistry
- Incomings Physics +
- Promotion +
- Ressources +
- Contact +

[Homepage](#) > [Exchange Programs](#) > [Outgoings Chemie](#) > European Partners

European partner universities in chemistry

Here you will find a list of our existing partnerships within the framework of Erasmus+ and the Swiss-European Mobility Program (SEMP). Further details on academic offer, language of instruction etc. can be found under the respective websites.

Experience reports from other TUM students are available in the [Publisher of TUM Global & Alumni Office](#).

Erasmus Code of TUM: **D MUNCHEN02**

Country	University	Places	Duration (months)
Belgium	Katholieke Universiteit Leuven (KU)	2	10
	Universiteit Gent	8	6
Denmark	Danmarks Tekniske Universitet (DTU)	20	5
Finland	Aalto-yliopisto	1	10
	Helsingin yliopisto	3	5
France	Turun Yliopisto	1	10
	Ecole Supérieure de Chimie Physique Electronique de Lyon (CPE)	1	10
	Ecole Nationale Supérieure de Chimie de Montpellier	2	10
	Université Paul Sabatier - Toulouse III	2	12
	Ecole Nationale Supérieure de Chimie de Paris	3	10


TUM School of Natural Sciences

Technische Universität München

Boltzmannstr. 10
85748 Garching

<https://academics.nat.tum.de/en/global/out-ch/europe-partners>

Experience reports (I)



Global Experiences

Cooperating worldwide, TUM offers you many opportunities for international experiences, ranging from short programs to several semesters abroad. Make use of these programs to advance your academic profile, improve your language proficiency, boost your career prospects, and have a lot of fun!

Country
 Denmark ⊗

Institution ∨

Program
 Erasmus Studies / Studium (SMS) ⊗

Level ∨

Subject Area
 NAT-Chemistry ⊗

🔍 Search

↙ or NAT-Physics

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<https://tum.adv-pub.moveon4.de/global-experiences/>

Experience reports (II)

 Denmark
1 Relations

 DENMARK

Danmarks Tekniske Universitet (DTU)

Institutions

City	Lyngby
Website	http://www.dtu.dk
Erasmus Code	DK LYNGBY01
Application Information	-

Relations

Program	Erasmus Studies / Studium (SMS)
Level	Undergraduate / Bachelor Postgraduate / Master
Subject Area	NAT-Chemistry
ISCED Code	0531 - Chemistry

[More Details](#)

<https://tum.adv-pub.moveon4.de/global-experiences/>

Experience reports (III)

Danmarks Tekniske Universitet (DTU), Denmark

Travel Reports

Travel Reports - 1	
Travel Report	Erfahrungsbericht
Institution	Danmarks Tekniske Universitet (DTU)
TUM Subject Area	NAT-Chemistry
Starting Date	2019-08-25
Travel Reports - 2	
Travel Report	Experience report
Institution	Danmarks Tekniske Universitet (DTU)
TUM Subject Area	ED-Engineering Science
Starting Date	2021-02-17
Travel Reports - 3	
Travel Report	Experience report
Institution	Danmarks Tekniske Universitet (DTU)

Relations
Program Erasmus Studies / Studium (SMS)

Search result for
subject area
NAT-Chemistry

<https://tum.adv-pub.moveon4.de/global-experiences/>

Experience reports (IV)

The screenshot shows a search result for 'Danmarks Tekniske Universitet (DTU), Denmark'. A dropdown menu is open, highlighting 'Travel Reports'. Below it, there are three entries, each with a link to an 'Experience report'. The details for each entry are as follows:

Travel Reports - 1	Travel Reports - 2	Travel Reports - 3
Travel Report	Travel Report	Travel Report
Institution	Institution	Institution
TUM Subject Area	TUM Subject Area	TUM Subject Area
Starting Date	Starting Date	Starting Date
2021-08-23	2021-08-23	2021-08-23
Danmarks Tekniske Universitet (DTU)	Danmarks Tekniske Universitet (DTU)	Danmarks Tekniske Universitet (DTU)
NAT-Physics	NAT-Physics	NAT-Physics

Relations
 Program Erasmus Studies / Studium (SMS)
 Level Undergraduate / Bachelor| Postgraduate / Master| Doctorate / PhD

Search result for
 subject area
 NAT-Physics

<https://tum.adv-pub.moveon4.de/global-experiences/>

Credit transfer

- Credit transfer options are discussed with responsible persons of the respective study program and need to be documented for the Erasmus+ program (OLA).
- Elective areas allow free recognition (strict matching to TUM modules not necessary).
- There is no automatic credit transfer, you need to submit a request upon your return.

<https://academics.nat.tum.de/en/studies/org/faq/studies/credit>

Leave of absence

- Semester does not count towards study time, but you cannot take initial examinations nor register/submit a thesis.
- No BAföG but Auslands-BAföG, if you complete modules matching your degree program – consult details with your BAföG office. If you receive a scholarship, you should similarly check with the provider.

www.tum.de/en/studies/during-your-studies/organizing-your-studies/leave-of-absence

Application period Erasmus+ & SEMP

For the academic year 2025/26:

December 1, 2024 –
January 15, 2025
12 noon

Application documents Erasmus+ & SEMP (I)

- Online application form (moveon)
- Letter of motivation in English, with explanations to each of the desired host universities (max. 2 pages, up to four universities)
- Preliminary study plan at each chosen host universities

Applica

Study Plan

(Template to be used for your application for a stay abroad in the frame of Erasmus+ (SMS),
Swiss-European-Mobility-Program or Double Degree Program)

Academic Year 20.../20....

- Online a

- Letter of
host uni

- Prelimin

Name of student:			
Number of enrolment at TUM:		Department at TUM:	
Receiving institution:		Country:	

desired

Course unit code at receiving institution (if any):	Course unit title:	Number of ECTS credits:

www.international.tum.de/global/erasmusstudium/#c2927

Application documents Erasmus+ & SEMP (II)

- Academic records of previous semesters and/or studies (Bachelor and Master)
- Language certificates for relevant teaching languages, possibly complemented by a language learning plan
- CV (incl. hobbies, languages, internships, social engagement etc.)

Application process Erasmus+ & SEMP

Upload complete application documents in the application portal of TUM Global & Alumni Office (moveon) **and** send the resulting „Full Application PDF“ to either global.ch@nat.tum.de or global.ph@nat.tum.de, depending on your study program at TUM.

Submit only complete applications, further documents cannot be added later on!

<https://academics.nat.tum.de/global/out-ch>

<https://academics.nat.tum.de/eu-ph>

Selection criteria Erasmus+ & SEMP

- Personal motivation and academic plan as a whole (abroad, at TUM and beyond)
- Academic performance
- Language proficiency in the teaching language, knowledge of the local language is a plus
- Extracurricular activities and social engagement

Selection process Erasmus+ & SEMP (I)

- Application deadline for exchanges in the academic year 2025/26 is **January 15, 2025 at 12 noon** – for both stays in winter and/or summer semester
- Interviews may take place in some cases
- Exchange offer by the **end of February** – two-weeks time to accept or reject the offer
- Nomination in the following weeks

Selection process Erasmus+ & SEMP (II)

- Students apply independently to the host institutions starting from **mid March** – application procedures and deadlines depend on the host institution!
- Online pre-departure meeting at the School in **March/April**
- Information about the Erasmus+ grant comes from TUM Global & Alumni Office starting in **April** (moodle course enrollment)

ERASMUS+ SMS: TIMELINE FOR SCHOLARSHIP

ERASMUS+ STUDIES STEPS	MAIN DEADLINES
Application period for an Erasmus+ exchange spot	1.12. 2023 – 15.01. 2024, 12 a.m.
Allocation of exchange spots by TUM Schools/Departments	January to March, depending on Departments
Moodle course login & information about the next steps	Beginning/middle of April
Submission of Online Learning Agreement (course selection)	<u>As soon as possible after allocation of exchange spot.</u> Please contact your school/department for more info.
Pre-Departure Meeting	Mid-June/End June
Scholarship application	Mid-June/ beginning of July (depending on DAAD guidelines)
Signature of the Grant Agreement	End of June / middle July (depending on DAAD guidelines)
Upload OLA & Signature of the Grant Agreement	At latest one day before the exchange starts!



Please note that **these are only the main steps** to get the grant

Language skills Erasmus+ & SEMP

- Language of instruction: good to very good skills
- Relevant is your level at the registration / beginning of your stay abroad, not at the application
- Recommendation: work out a language learning plan (TUM language courses, intensive courses etc.)
- Local language: bonus for your application

Sprachplan

Language skill

Mit dem folgenden Sprachplan soll bis zum Beginn des WS 1015/2016 ein Sprachniveau von B1 im europäischen Referenzrahmen für Spanisch erreicht werden:

WS 2014/2015

Besuch Spanisch A1 Sprachkurs am TUM Sprachenzentrum.

SEMESTERFERIEN MÄRZ 2015

3-wöchiger Intensivsprachkurs in Málaga. Hier soll Sprachniveau A2 erreicht werden (Sprachschule schätzt durchschnittlich 4-6 Wochen für Aufsteigen um ein Niveau. Allerdings hängt es davon ab, wie sehr man sich bemüht, d.h. es ist auch in 3 Wochen machbar).

SS 2015

- Falls bei Intensivsprachkurs Fortschritt auf Niveau A2 geschafft wurde:
Besuch Spanisch B1 Sprachkurs am TUM Sprachenzentrum (und Erwerb des DAAD Sprachzertifikats).
- Falls Fortschritt auf Niveau A2 nicht geschafft wurde:
Besuch Spanisch A2 Sprachkurs am TUM Sprachenzentrum nach erneutem Durchführen des Moodle Einstufungstests (Frau Garcia bestätigte, dass im SS15 Niveau A2.1 und A2.2 angeboten wird)

SEMESTERFERIEN (AUGUST 2015)

Falls Sprachniveau B1 noch nicht erreicht:

- Falls angeboten:
Besuch eines Blockkurses Spanisch B1 am TUM Sprachenzentrum (und Erwerb des DAAD Sprachzertifikats).
- Ansonsten:
Besuch eines Sprachkurses an der Universität (UPM) in Madrid, vor Vorlesungsbeginn. Vor dem aktuellen Wintersemester (2014/2015) wurden von der UPM angeboten:
 - Intensivkurse von 26. August bis 12. September mit Sprachniveaus A1, A2, B1.1, B1.2, B2.1

▪ Language of instru

▪ Relevant is your le
not at the applicat

▪ Recommendation
courses, intensive

▪ Local language: b

of your stay abroad,

l (TUM language

Language Café

Practice languages, socialize and enjoy free drinks and cake!



- **Every Wednesday, 3.00 – 5.30 pm**
- Informatics / Mathematics building (slides)
- Registration in TUMi app: <https://tumi.esn.world/events>

Fellow program – Physics

- Make friends at TUM from all over the world
- Help incoming exchange students to feel at home
- Practice a foreign language *dáhoam*
- Gain first-hand insights in a foreign culture
- Bonus for your own application for an exchange program and/or stipend

<https://collab.dvb.bayern/display/TUMnat/Fellow+program>

Register by August 15 for the winter semester or
by February 15 for the summer semester.

Buddy program – Chemistry

Send an email to: global.ch@nat.tum.de, Subject: *Buddy Program Registration*

Please include the following information in your email:

- Name
- Program and semester
- Language skills
- Interests and specific preferences (e.g., focus on academic support or social activities)
- *Please include the following consent statement at the end of your email:
“I agree to the processing and sharing of my provided data for the purposes of the Buddy Program.”*

Individual advice

Study programs in chemistry

Dr. Eliza Gemel
Chemistry building
Room CH63105

Consultation hour:
<https://tinyurl.com/global-nat-ch>

For short questions:
global.ch@nat.tum.de

Out of office!

23.12.2024 - 06.01.2025

Study programs in physics

Dr. Maria Eckholt
Physics building
Room PH2053

Consultation hour:
<https://tinyurl.com/global-natph>

For short questions:
global.ph@nat.tum.de

Out of office!

13.12.2024 - 06.01.2025