

Darmstadt
December 10, 2018



TECHNISCHE
UNIVERSITÄT
DARMSTADT

INSPIRED

International Project Week
for Interdisciplinary Research-Oriented Digital Learning



Summer 2019 | Application guide

Welcome to INSPIRED!

Before you begin the application procedure, prepare the following requisite documents:

- Transcript of your academic records
- Brief (one-page) motivation letter
- Copy (PDF scan) of your passport (valid for at least 6 months after the end of the program) or passport application receipt

If applicable, provide also:

- Language certificate indicating your skill level in English or confirmation of participation in an English course
- Certificate of Bachelor / Master Degree

To submit your online application, go to:

<http://www.inspired-darmstadt.com/index.php/application>

Upon clicking the [Apply Now] button, you will be redirected to the TU Darmstadt MoveON platform for incoming students:

<https://tuda.moveon4.de/locallogin/55b8849b84fb96032c000000/eng>

To register, provide the required personal information and log in using your email address and a unique password of your choice.

Read the **Information about the online application form** carefully.

Note: Disregard the request for the final PDF application file print-out, but save the document in your digital records.

When you are ready, click [Next] and start your application process.

Below, we have listed sections and fields of the application form that do not specifically conform to the INSPIRED program format and might prove confusing or problematic. To complete your submission successfully, follow the provided guidelines.

PERSONAL INFORMATION

Identity document	Your passport
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CURRENT STUDIES AND REQUESTED STAY | Exchange details

Are you coming from a partner institution?	To find out whether your home institution is an official international partner of the Technische Universität Darmstadt, please contact the International Office at your university
Framework	Select INSPIRED from the drop-down menu
Institution	Select your home institution from the drop-down menu If your university is not listed, please contact us (see below)

LANGUAGES SKILLS | English skills

Language level	Please follow the link provided in the information tab [i] to critically evaluate your skill level
Do you already fulfill the language requirements for an exchange at TU Darmstadt?	Please <u>disregard</u> the note provided in the information tab [i] as our program does NOT offer any language courses Since <u>English is the language of INSPIRED</u> , we expect our participants to have sufficient English skills to fully engage in our program (active teamwork, oral presentation, written report, practicals, company tours, everyday communication)
Proof of English language proficiency or confirmation of participation in a language course	Although not obligatory, providing your English skills certificate / confirmation of participation in an English course is desirable Does not apply to students from English-speaking countries or students who study at a partner university with English as main language

RELEVANT DOCUMENTS TO BE UPLOADED

Academic transcript of records	Unofficial version is sufficient
Motivation letter and/or Learning Agreement	In a brief (one-page) <u>motivation letter</u> , tell us what INSPIRED you to apply and take part in our program
Certificate of Bachelor / Master Degree	If applicable

If you have any further questions regarding the application form, please contact us:

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Amina Ziegenbein | Agata Staniek, INSPIRED Coordination
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Summer 2019 | Syllabus

TOPIC	Interstellar Farmacy Manufacture design of a functional, sustainable, and efficient bio-reactor generating specialized nutrients and therapeutics in extreme conditions of outer-space stations and off-world colonies of the future
LANGUAGE	English
PREREQUISITES	Enrolled in a university undergraduate or graduate program General interest in Engineering & Life Sciences and studying abroad
COURSE SCHEDULE	
Prep-phase	e-Learning, home country
Launch	April 1
Duration	approx. 10 weeks
Format	weekly content 'packages'
Do-phase	Darmstadt, Germany
Duration	3 weeks June 24 – July 12
Format	weeks 1 & 2 team project work & fundamental bio/engineering practicals company visits (e.g., Merck KGaA) & tour of the European Space Operations Centre
	week 3

COURSE DESCRIPTION

The so called Prep-phase, consisting in independent self-study of the e-Learning material made available via the open-source Moodle platform, is primarily designed to give the participants of disparate academic backgrounds an overview of the skills required for their interdisciplinary work in international teams. Task-relevant e-Learning content, addressing fundamentals and state-of-the-art practices of (synthetic) biology and engineering, is posted online incrementally as the Prep-phase progresses.

In course of the Do-phase, comprising a two-week project event at the TU Darmstadt, the students have the opportunity to experience project work in a typical (bio-)engineering environment. In international and interdisciplinary teams of 10 to 12 participants, they develop solutions to a challenging bio/engineering-based problem. Their teamwork is continuously supported by trained staff who promotes professional and social learning, whereas specific science questions are addressed by senior faculty members and specialists during so-called 'Expert Interviews'. Concurrently, the students are afforded access to laboratories on the Bio-Campus and learning factories of the Mechanical Engineering Department. The project event concludes with the presentation of teamwork results.

In the final week of their stay in Darmstadt, the participants have the opportunity to gain perspective on the practices of bio-/engineering companies based in Germany as well as the European Space Operations Centre (ESOC) and discuss their insights and impressions.

