

Welcome to the Summer School at the TU Ilmenau!

Dive deep into green micro- and nanotechnology.

The increasing importance of sustainability and environmental compatibility requires innovative solutions within micro- and nanotechnologies. Our current projects include research into memristive materials for neuromorphic electronics, i.e. for biology-inspired and extremely energy-efficient new systems in which memristive materials act as the central component of a new type of energy-saving computer hardware. Our research and development work is both theoretical and experimental in nature. Our institute is characterized by an extremely high degree of interdisciplinarity, which is rarely found internationally. This means that our research and development work is at the highest international level and is reinforced by numerous international collaborations.



Green micro- and nanotechnologies refer to the application of micro- and nanotechnological approaches, taking into account environmentally friendly and sustainable principles. In order to avoid negative ecological, economic and social consequences of the growing demand for raw materials and energy, we need environmentally friendly information technology that is sustainable and climate-neutral along the entire value chain and throughout the entire material and product cycle.

The Summer School Green Micro- and Nanotechnology at a glance!

All you need to know.

Format: Summer School in presence at the TU Ilmenau

Application period: March 15 - May 15, 2024

Admission period: May 20 - May 31, 2024

Date: August 25- 30, 2024

Fees: 750 Euro (all inclusive)

Target group: Students studying for a Master's degree or doctorate (admission: students of materials science, electrical engineering, physics, biology, chemistry, applied physics, telecommunications (Bachelor's degree required))

Language: English



Would you like to register for the summer school?
Then scan the QR code!

If you need more informations or a personal advise visit the website of the TU Ilmenau or contact us. We are glad to help you.

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Summer School Green Micro- and Nanotechnology 2024

August 25 - 30, 2024




TECHNISCHE UNIVERSITÄT
ILMENAU

What we offer at the Summer School Green Micro- and Nanotechnologies?

Excellent learning and technology environment

TU Ilmenau is an excellent university with a focus on

- functional materials and technologies,
- intelligent sensors and precision measurement technology as well as
- complex systems and data-intensive engineering.

(Green) micro- and nanotechnologies and electronics are a particular focus of research. The variety of lectures, tutorials, case studies and laboratory work, will significantly expand your own knowledge through both theoretical background and practical application.

	Sunday 25.08.	Monday 26.08.	Tuesday 27.08.	Wednesday 28.08.	Thursday 29.08.	Friday 30.08.
09:00		Welcome to ZMN	Projectwork	Lectures Projektwork	Projectwork	Soft Skills Come In @ TU Ilmenau
12:00		lunch @ Mensa	Lunch	lunch @ Mensa	lunch @ Mensa	lunch @ Mensa
13:00		Lectures	Field trip Xfab GmbH	Lectures	Lectures	Wrap up, Feedback session & farewell
16:30	Arrival and registration	Campus Tour TU Ilmenau	Sight Seeing Erfurt	Projectwork	Projectwork	Departure
18:00	Welcome and getting to know each other with informal dinner	Poster session of internal doctoral students with get together	Dinner in Erfurt	Dinner at a student club in Ilmenau	Project Presentation Conference Dinner	

Attractive supporting program

The extensive and attractive supporting program includes

- a variety of institute tours and laboratory visits
- excursions to leading industrial companies
- sightseeing through Erfurt
- insights into European and other funding opportunities
- improvement of soft skills such as how to give presentations



All-round carefree package

Benefit from an all-round comfortable stay. Thus, you can concentrate fully on learning and socializing. In addition to the summer school, the following program items are included:

- accommodation,
- transportation,
- courses and visits,
- every meal, including the conference dinner.



Your summer of research and entertainment!

Events of all kinds will take place during the week of August 25-30, 2024. A week filled with projects, further training, and of course, fun awaits you

In addition to an introduction to green micro- and nanotechnology and the theory of sustainability, the Summer School offers lectures by European experts in the fields of materials, fundamentals of neuromorphic electronics, energy-efficient computing and group projects for independent work in the laboratories of the Center for Micro- and Nanotechnologies.

A full-time program with exciting topics and varied days awaits you.