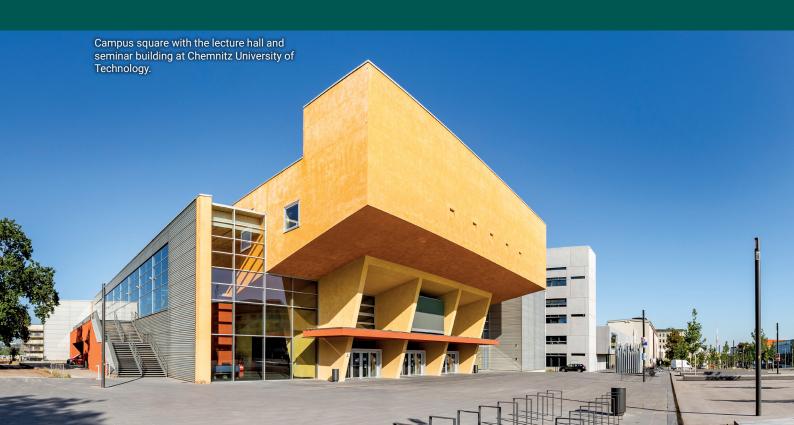


TUCreport 2021

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Technology, dear readers,

Like every year, we would like to look back on the past year with the TUCreport in 2022 - which, like the previous year, was very much overshadowed by the Covid-19 pandemic. However, I believe that we, as a university family, have managed this challenge well together. It is all the more gratifying that, despite the pandemic, we were once again able to record major successes in all areas of our university in 2022. These include: the success of HZwo e. V. - which is closely linked to our university and supported by us - in the nationwide competition for the national hydrogen center, the acquisition of outstanding professors, including the realization of the move of Leibniz Prize winner Prof. Dr. Oliver G. Schmidt to our university, the founding of the Center for Criminological Research Saxony - which is closely linked to Chemnitz University of Technology, the achievement of top rankings in the CHE ranking, the successful application as an associated supporter of the German House of Science and Innovation in San Francisco, the achievement of an excellent result in the Stifterverband's "Gründungsradar 2020," the receipt of a funding notification by the BMBF, which provides 15 million euros for the development of the Refrigeration and Energy Technology Research Platform in Reichenbach and the BMVI funding decision of 10 million euros for the further development of the Smart Rail Connectivity Campus in Annaberg-Buchholz as well as the award of the DHV seal of approval for fair and transparent appointment negotiations - as the first and only university in Saxony and one of 17 universities nationwide. Of course, these are only a few events and successes - in a year in which the university was again exposed to extremely high stresses due to the Covid-19 pandemic. Especially against this background, I would like to express my sincere thanks to all members of our university, its institutions, bodies and representatives for their outstanding commitment!

As in the previous year, University Management was intensively occupied with the challenges posed by the Covid-19 pandemic, striving, among other things, to protect our members and associates as well as their families as best as possible, to maintain our university life as far as possible and responsible, and, above all, to develop a long-term strategy that avoids overly erratic changes. However, it was again very much concerned with developing our university in all its areas - not just managing it, but also shaping it. Some measures worth highlighting are: the negotiation and signing of the SMWK target agreement 2021 to 2024, the settlement of the SMWK target agreement 2017 to 2020, the development and implementation of a university-specific strategy with a view to the next round of calls for proposals under the Excellence Strategy, and the support of application preparations and cutting-edge research in core competencies, the establishment of a university-wide ethics committee, the implementation of the first inspection for system accreditation, the establishment of a package of measures to support the application and implementation of large-scale research projects with a focus on young scientists, the first-time implementation of a strategy workshop as part of the European Cross-Border University network at Chemnitz University of Technology, the development of a variety of Capital of Culture activities, as well as setting clear signs for tolerance, diversity and cosmopolitanism. Further selected events and activities in 2021 can be found on the following pages. I hope you enjoy reading the TUCreport 2021 and would of course be pleased to receive feedback on our contributions. Best regards and stay healthy!

1/h/Min

Prof. Dr. Gerd Strohmeier President

University Highlights



Chemnitz Success in Nationwide Competition for National Hydrogen Center

HZwo e. V., which is closely associated with Chemnitz University of Technology, was successful in the nationwide competition for the national innovation and technology center Hydrogen Technology for Mobility Applications, making Chemnitz one of four locations with the Hydrogen and Mobility Innovation Center (HIC) and the only location in eastern Germany. This is associated with federal funding of up to 60 million euros until the end of 2025. In the future, the HIC will bundle the competence and expertise of the participating partners for the establishment of a value-added network for hydrogen technologies and fuel cell drives under the umbrella of the German Center for Future Mobility. On the site of the HIC in the immediate vicinity of Chemnitz University of Technology, a state-of-the-art vehicle laboratory, a hydrogen certification center, test benches for fuel cells as well as a training center and an Experience Lab on an international level are to be built.



Chemnitz University of Technology is a member of the advisory board of the new German House of Science and Innovation in San Francisco

Chemnitz University of Technology has been accepted as one of the initial three German universities in the advisory board of the new German Science and Innovation House (DWIH) in the "innovation hotspot" San Francisco. The participation in the advisory board in this important scientific and economic region is, in addition to the opportunity to help shape the DWIH San Francisco, also an outstanding component of the internationalization strategy of Chemnitz University of Technology, which would like to expand its numerous existing research cooperations with universities in this part of California. On the part of Chemnitz University of Technology, the physicist and expert in ultrafast magnetic storage, Prof. Dr. Olav Hellwig, holder of the professorship of Functional Magnetic Materials, who is very well connected in this part of the United States, will participate in this international committee.



New Center for Criminological Research has its seat in Chemnitz

The Center for Criminological Research Saxony (ZKFS) started its work in Chemnitz in 2021. Located in the immediate vicinity of the university library, the ZKFS is the first independent research institution for criminology in eastern Germany. Basic as well as practice-oriented criminological research on all sub-areas of criminology, including criminal policy, is conducted there and corresponding research results are published and communicated to the public. The independent research institution will also cooperate closely with

Chemnitz University of Technology in academic education and professional training. The director of the center is Prof. Dr. Frank Asbrock, holder of the professorship of social psychology at Chemnitz University of Technology. Since December 23, 2021, the center, founded as a non-profit association and funded by the Saxon State Ministry of Justice and for Democracy, Europe and Equality, is a new affiliated institute of Chemnitz University of Technology.



In an online meeting, the President of the German University Association (DHV), Prof. Dr. Bernhard Kempen (I.), awarded Chemnitz University of Technology with the DHV seal of approval for fair and transparent appointment negotiations. The certificate was digitally accepted by the university's president, Prof. Dr. Gerd Strohmeier.

First DHV Seal of Approcal for a Saxon University

Chemnitz University of Technology is the first and only university in Saxony to be awarded the seal of approval by the German University Association (DHV) for fair and transparent appointment negotiations. With this, it belongs to a circle of 17 universities nationwide, which can advertise with this proof of quality. According to the DHV, the appointment procedures and negotiations at Chemnitz University of Technology are well organized and conducted in an appreciative manner. It should be positively emphasized that every potential employee receives a personal negotiation appointment

with the university management, regardless of the grade. There are also a variety of support services for new appointees, such as introductory events at which the university management and other structural areas of the university introduce themselves. In order to make it easier to reconcile an academic career and family life, Chemnitz University of Technology, which is certified as a family-friendly university, offers many individual support options for childcare or for finding a job for a partner.



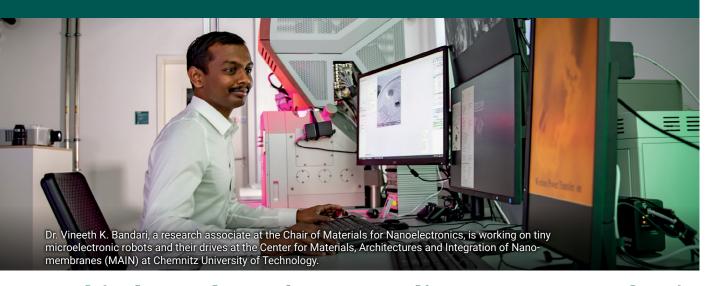
Outstanding performance in the "Gründungsradar 2020" survey

According to the Gründungsradar 2020 published on March 11, 2021, Chemnitz University of Technology is once again in the Top 10 among medium-sized universities in Germany. This is the result of a survey conducted by the Stifterverband für die Deutsche Wissenschaft (Donors' Association for the Promotion of Sciences and Humanities in Germany) in cooperation with the Marga and Kurt Möllgaard Foundation on behalf of the Federal Ministry for Economic Affairs and Energy. This makes Chemnitz University of Technology one of 42 universities nationwide that may use the Stifterverband's logo for exemplary start-up support. Among the 71 medium-sized universities and other higher education institutions with 5,000 to 15,000 students evaluated, Chemnitz University of Technology ranked 9th. In the category start-up activities, Chemnitz University of Technology even managed to reach 2nd place; in the category promotion of start-ups, it reached 3rd place.



Students give Chemnitz University of Technology very good marks in CHE Ranking

According to the student surveys published in May and November 2021 by the Center for Higher Education Development (CHE Ranking), Chemnitz University of Technology is one of Germany's top addresses for students. The bachelor's degree programs in mathematics (mathematics, financial mathematics, business mathematics and MINT: mathematics, computer science and natural sciences with applications in technology) were rated very well in several categories. The subjects of physics, chemistry, computer science and sports science were also rated positively. Here, the support at the start of studies was praised in particular. The master's programs in mathematics (data science, mathematics and the integrated international master's and doctoral program in mathematics) were also ranked in the top group in various areas (support during studies, courses offered, organization of studies, scientific relevance, general study situation).



Tschirnhaus plaque for outstanding young researcher in the field of micro- and nanoelectronics

Dr. Vineeth K. Bandari from the Chair of Materials for Nanoelectronics at Chemnitz University of Technology was honored with the Tschirnhaus plaque by the Leibniz Institute for Solid State and Materials Research Dresden. The award honors his outstanding doctoral thesis on Smart Motile Autonomous Robotic Tubular Systems (S.M.A.R.T.S), which Bandari completed with the distinction summa cum laude. During his research at the Center for Materials, Architectures and Integration of Nanomembranes (MAIN) at Chemnitz University of Technology, Bandari worked on tiny microelectronic robots and their actuators. Among other things, he was involved in the development of the world's smallest microelectronic robotwhich is 0.8 mm long, 0.8 mm wide and 0.14 mm high, driven by a twin jet and mechanically extremely flexible, mobile and equipped with various functions (published in the journal Nature Electronics). Bandari was supervised by Prof. Dr. Oliver G. Schmidt. The Leibniz Prize winner is one of the absolute world leaders in research into flexible microelectronics and nanoelectronics and moved to Chemnitz University of Technology in 2021 (p. 13).



Chemnitz University of Technology repeatedly set an example for tolerance, diversity and cosmopolitanism

For the Chemnitz Christopher Street Day (CSD) on July 31, 2021, the rainbow flag was hoisted on all flagpoles at Chemnitz University of Technology. In addition, Chemnitz University of Technology dyed its logo in rainbow colors - as it had already done as part of its rainbow colors logo campaign on June 23, 2021 on the occasion of the European Football Championship match between Germany and Hungary. With this, Chemnitz University of Technology continued its campaign #wirsindchemnitz, which was awarded the Prize for University Communication in 2019. Thus, it showed its colors in the truest sense of the word and once again sent a clear

signal against discrimination as well as for tolerance, diversity and cosmopolitanism. Chemnitz University of Technology also supported a lively and democratic urban society through its participation in the spraying action of BuntmacherInnen e. V. as part of the project "Mach dich lang für deine Werte!" ("Go long for your values!"), which was funded by city of Chemnitz's local action plan and is an official cooperation project of KOSMOS CHEMNITZ. During this action, central values such as democracy, diversity, cosmopolitanism and tolerance were sprayed onto the campus square on Reichenhainer Straße using spray chalk.

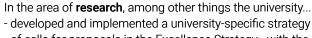
From University Management





In the area of higher education policy and development, among other things the university...

- negotiated and signed the target agreement 2021 to 2024 with the SMWK, which, among other things, provides for the increase in the target number of students in 2024 from 9,400 to 10,000, which had been requested for some time,
- settled the 2017 to 2020 target agreement with the SMWK: with a target achievement level of 100% - taking into account the Covid-19 pandemic, but also by clearly meeting (and exceeding) individual targets (STEM quota for graduates, third-party funding from scienceled procedures, spin-offs),
- established a university-wide ethics committee (including the establishment of an office and the issuance of rules of procedure) - under the leadership of Prof. Dr. Alexandra Bendixen as Representative of the University Management.



- developed and implemented a university-specific strategy with a view to the next round of calls for proposals in the Excellence Strategy - with the goal of realizing (at least) one (collaborative) cluster of excellence application, or participation in one, for each core competence,
- supported the application preparations in the excellence strategy or cutting-edge research in the core competencies as best as possible - among other things, by successfully applying for 1.88 million euros from the Free State of Saxony for the years 2021/2022,
- set up an information portal for (large-scale) research projects in order to further strengthen research activities at Chemnitz University of Technology.



In the area of **teaching**, among other things...

- the first inspection for system accreditation was carried out and seven internal accreditation procedures were completed,
- a successful joint application "Digitalization in Disciplines Participatory Implementation: Competencies Connected" was submitted to the first call for proposals by the Innovation in Higher Education Foundation for the permanent promotion of quality and innovation in teaching and learning,
- a preparatory course in cooperation with the TUCed and the permanent conversion of three international Master's programs to hybrid teaching was established.

In the area of **young scientists**, among other things...

- a package of measures to support the application and implementation of large-scale research projects with a focus on "young scientists" as well as a program for bridging funding of third-party financed young scientists during the COVID-19 pandemic was established,
- the university's internal principles for professorships were revised in particular for the promotion or qualification of the university's own young scientists,
- the regulations of the Center for Young Scientists were changed to allow for more participation and self-determination by the academic mid-level staff.

In the area of **international affairs**, among other things...

- a strategy workshop for the European Cross-Border University network was held at Chemnitz University of Technology for the first time, among other things to promote the joint application as a European University,
- the fifth and sixth funding rounds of the Visiting Scholar Program were carried out, in addition to supporting digital conference participation and short-term stays in Chemnitz,
- the DAAD's Hilde Domin Program (for students who are denied the right to education in their country of origin) and the Alexander von Humboldt Foundation's Philipp Schwartz Initiative (for researchers at risk) were successfully supported.

In the area of **transfer**, among other things...

- branch offices in Reichenbach and Annaberg-Buchholz were developed, including the connection of the Smart Rail Connectivity Campus to the German Center for Future Mobility and the organization of the Digital Rail Convention 2021 in Annaberg-Buchholz with a visit by the Federal Minister of Transport, Andreas Scheuer, and the Prime Minister of Saxony, Michael Kretschmer,
- Prof. Dr. Uwe Götze, Vice President for Transfer and Academic Qualification, was appointed to the Economic Advisory Board by Chemnitz's Mayor Sven Schulze at the suggestion of the President,
- the Capital of Culture activities at Chemnitz University of Technology were further promoted, including the provision of a fund for the promotion of Capital of Culture projects related to Chemnitz University of Technology and the establishment of new university-wide Capital of Culture-related communication channels.

Further selected activities, including in the area of university communication as well as appreciation, can be found on the following pages.



A comprehensive overview is provided in the University Management report for 2021.

www.mytuc.org/bericht-2021

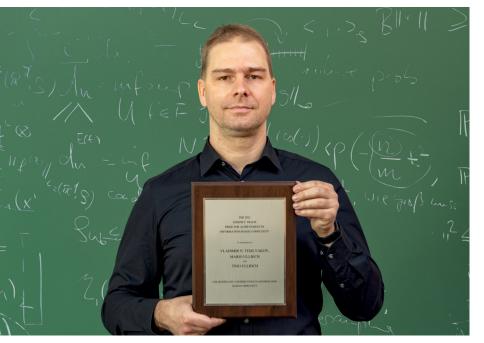








From Our Faculties



Faculty of Mathematics

Prof. Dr. Tino Ullrich, holder of the Chair of Applied Analysis at Chemnitz University of Technology, was awarded the Joseph F. Traub Prize in 2021 one of the highest honors within the mathematical community of Information Based Complexity (IBC). The award resulted from an outstanding contribution of Ullrich and his research group in the field of approximation theory related to complexity theory and machine learning. The prize was awarded at the international online workshop Sampling Recovery and Related Problems, which was held May 3-7, 2021. The Joseph F. Traub Prize is endowed with 3,000 US dollars and was awarded in equal parts to Prof. Dr. Ullrich, Dr. Mario Ullrich (Johannes Kepler University Linz) and Prof. Vladimir Temlyakov (University of South Carolina).



Faculty of Electrical Engineering and Information Technology

A research team from Chemnitz University of Technology, the Leibniz Institute for Solid State and Materials Research (IFW Dresden) and the Max Planck Institute for Molecular Cell Biology and Genetics (CBG) developed the world's smallest flexible, microelectronic microcatheter. In this smart microelectronic tool for minimally invasive surgery, the electronic components for sensors and actuators are already integrated in the catheter wall. Due to the special manufacturing process, the embedded electronic components have no effect on the size of the catheters, which can thus be as thin as a single hair. The instruments have a diameter of only 0.1 mm and are also characterized by their flexibility, resistance and high biocompatibility. The research team was led by Prof. Dr. Oliver G. Schmidt, holder of the professorship of Materials for Nanoelectronics and designated scientific director of the Center for Materials, Architectures and Integration of Nanomembranes (MAIN) at Chemnitz University of Technology. The new type of biomedical multifunctional tools was presented in the journal Science Advances.

Faculty of Mechanical Engineering

Prof. Dr. Michael Gehde, holder of the Chair of Plastics Engineering at Chemnitz University of Technology, was the first plastics engineer to be honored with the Evgeny Paton Award. This prize, which consists of a medal and a certificate, is awarded annually by the International Institute of Welding and sponsored by the Ukrainian E. O. Paton Electric Welding Institute. The award is given to individuals who have dedicated their life's work to applied research and development in the field of welding technology, the materials required for it, and technical equipment and related processes, making outstanding contributions to research, development and teaching. Prof. Dr. Gehde's achievements include mechanical engineering innovations in the field of plastics processing in joining and forming technologies. His research work is characterized by the holistic approach of the process-structure-property relationship in plastics technology.



Faculty of Natural Sciences

The German Research Foundation (DFG) is establishing the new research group called proximity-induced correlation effects in low-dimensional structures under the leadership of Chemnitz University of Technology. This was decided by the DFG's Joint Committee on September 23, 2021. The research group will be funded with approximately 3.9 million euros in the first four-year funding period. The spokesperson of the research group is Prof. Dr. Christoph Tegenkamp, holder of the professorship of Solid Surfaces Analysis at Chemnitz University of Technology. The research focuses on atomically thin carbon films such as graphene. The research group also includes scientists from the Physikalisch-Technische Bundesanstalt Braunschweig, the Max Planck Institute for Solid State Research in Stuttgart and the universities of Göttingen, Hamburg and Regensburg.



Faculty of Computer Science

Participation is a central goal in research and development at the Faculty of Computer Science: Future users of technical systems should have a say in the development process, as this is the only way for innovations to be successful. Participation, i.e. the participation of those potentially affected, was also the focus of the Mitmach_X project at the Chair of Media Informatics (project leader: Dr. Andreas Bischof) from 2019 to 2021. For this purpose, an urban lab was set up on the Brühl in Chemnitz, which functioned like a mixture of workshop and working space. Here, people could get involved and - supported by a project team - jointly search for solutions to their problems. Groups including people from their mid-20s to mid-70s created, among other things, solutions for the greening of fallow land around the Brühl, a pawn store in Chemnitz's Sonnenberg and the Maker vs. Virus project, which used 3D printing to produce face shields and mask holders at the start of the Covid 19 pandemic. The City Lab is currently being used by the Collaborative Research Center Hybrid Societies at Chemnitz University of Technology and will also be available to the university as part of the European Capital of Culture 2025.



Faculty of Economics and Business Administration

Project manager Dr. Andreas Bischof presents the "Mitmach-Heft", in which many practical aspects of successful participation have been published. At the Faculty of Economics and Business Administration, the RADerFAHREN project was launched in January 2021. This project primarily addresses sustainable development in the field of local urban mobility. The focus is on mobility and traffic education as part of a holistic environmental education of children aged about ten years and their guardians as well as teachers at primary and secondary schools in Chemnitz. In the first months, recommendations for the design of teaching units around the bicycle, reusable teaching and learning materials as well as the mini-comic series Die BIKE Bande (The BIKE Gang) on cycling in and around Chemnitz were developed. In addition, numerous participatory activities for citizens of the city supported the Euro-

pean Mobility Week from September 16 to 22, 2021. Prof. Dr. Marlen Gabriele Arnold, holder of Professorship for Corporate Environmental Management and Sustainability, and Dr. Katja Beyer are leading the project, which is funded by the German Federal Ministry of Digital Affairs and Transport until July 2024 as part of the National Cycling Plan 2020.





Faculty of Behavioural and Social Sciences

At the Faculty of Behavioural and Social Sciences, several high-profile conferences took place in 2021 - despite Corona restrictions. For example, the international online conference Open Science and Replicability in the Behavioural and Social Sciences was held on April 30 with the Faculty's MethodenKompetenz-Zentrum and the OS@tuc Open-Science-Initiative. 218 researchers from 13 countries learned about the increasing importance of open science practices in the wake of a new digital culture of science and its impact on the scientific enterprise.

In addition, from September 22 to 24, the hybrid conference of the Division of Industrial, Organizational and Business Psychology of the German Psychological Society was held, attended by more than 500 people. Here, the focus was on sustainable interaction between people and technology.



Faculty of Humanities

Chemnitz University of Technology hosted the first virtual international congress of the German Society for Semiotics from September 28 to October 2, 2021. This year it was entitled "Transformations - Signs and their Objects in Change". Prof. Dr. Ellen Fricke, Chair of the German Society for Semiotics and holder of the Chair of German Linguistics at Chemnitz University of Technology, welcomed more than 200 semioticians from Germany and abroad. They exchanged ideas on a virtual conference campus about different sign processes underlying our access to the world as well as about their change and presented the latest research results. The thematic spectrum of the conference ranged from classical sign-theoretical concepts such as truth and reference in an age of upheaval declared as "post-factual" to challenges of technological change for a possible methodological transformation of semiotics as a single discipline and as an interdisciplinary field of research. The Chemnitz Collaborative Research Center Hybrid Societies, supported by the German Research Foundation, and the research group initiative "Palimpsest Spaces" were also each involved in the conference with an associated panel.



Research Center MAIN

The nanoscientist and Leibniz prize winner Prof. Dr. Oliver G. Schmidt, who had been, among other things, long-time director of the Institute for Integrative Nanosciences at the Leibniz Institute for Solid State and Materials Research Dresden, moved to Chemnitz University of Technology on September 16, 2021. Here he will continue his research especially in the field of nanomembrane-based materials at the new and state-of-the-art Center for Materials, Architectures and Integration of Nanomembranes (MAIN) and at the Faculty of Electrical Engineering and Information Technology (Profes-

sorship of Materials for Nanoelectronics). The nano-researcher is among the top one percent of the world's most cited scientists in his discipline and has about 870 publications in peer-reviewed journals, including Nature and Science. In 2021, researchers under his leadership succeeded in developing the smallest "biosupercapacitor" to date which is biocompatible and smaller than a speck of dust, but can still provide enough voltage to supply biomedical sensors in the body with energy, for example.

MERGE Research Cluster

In order to support structural change in the Lusatia region, the MERGE research cluster, the Fraunhofer Institute for Applied Polymer Research IAP and other research institutions from Saxony and Brandenburg want to contribute their research strengths as part of the InnoCarbEnergy project. The aim is to develop the key technology of lightweight carbon fiber construction at the Boxberg/Upper Lusatia power plant site. The scientists want to research the holistic value chain - from the molecule to the carbon fiber, textile semi-finished products and preforms through to high-performance components and systems - under industrial conditions and transfer them into practice. Based on future-oriented lightweight construction technologies, the climate-friendly transformation of the region from a coal economy to a self-sustaining bioeconomy is to be sustainably shaped together with the business community. A feasibility study is currently underway.





University Library

The University Library raised approximately 350,000 euros in 2021 as part of the Open Access Publication Costs program by the German Research Foundation (DFG). These funds will be used over the next three years to strengthen and further develop the publication fund. Publications by university staff in open-access journals will continue to be paid from this fund up to an article fee of 2,000 euros. This amount can now be subsidized with up to 700 euros from DFG funds. A new addition to the publication fund is the funding of Open Access monographs. These can be funded with up to 5,000 euros, but must have been produced within DFG projects.

University Computer Centre

In November 2021, the four-year Renewal of the Campus Network Backbone project was completed. The University Computer Centre received funding of 1.5 million euros from the Saxon State Ministry for Science, Culture and Tourism for this project. In the basic network of Chemnitz University of Technology, all university locations are now equipped with state-of-the-art network technology, which realizes redundant and high-performance connections with 100 GB/s between the locations and with 50 GB/s to the German Research Network. This will enable Chemnitz University of Technology to meet the increasing demand for network bandwidth and high network availability in research and teaching very well in the coming years.





Saxony's Centre for Teaching and Learning

Since 2021, Chemnitz University of Technology has been a partner in the joint project Digitization in Disciplines - Participative Implementation :: Competencies Connected, which is coordinated by Saxony's Centre for Teaching and Learning and funded by the Stiftung Innovation in der Hochschullehre (Foundation for Innovation in Higher Education). The project promotes the digitization of teaching, learning and testing in Saxon higher education. Specifically, it is planned to develop digital competencies of students in undergraduate teaching in cooperation with ten Saxon universities and the Saxon University of Cooperative Education, to enable didactically sound digitized workshop and laboratory work, to further develop the digital mathematics task pool, and to create a common didactic, technical, and legal understanding of digital exams.

Centre for Teacher Training

Large-scale reforms of elementary school teaching are currently planned in North Rhine-Westphalia. Among other things, elementary school students are to improve their reading and writing skills in the future. To this end, teachers are receiving support from the Chair of German Didactics at the Centre for Teacher Training at Chemnitz University of Technology. In 2021, Prof. Dr. Michael Krelle and Dr. Jutta Dämmer started three research projects, which are funded with a total of about 3.9 million euros by the Ministry for Schools and Education of the State of North Rhine-Westphalia. The content of the projects includes the development of digital learning environments, materials and handouts for teachers. One of the projects will provide didactic support for the Schule macht stark initiative of the Federal Ministry of Education and Research and several German states, which aims to improve educational opportunities for socially disadvantaged students.





International Office

At the International Office (IUZ), several internationalization projects funded by the German Academic Exchange Service started in 2021. For example, Chemnitz University of Technology is working with seven partner universities as the coordinating institution of the European Higher Education Alliance European Cross-Border University (Across, formerly UNIVERS) to advance their shared vision of a transnational European university. In addition, several projects have been launched at the IUZ that are increasingly geared toward digital offerings. In the TUC Digital Programs project, the IUZ, together with the faculties of Mechanical Engineering, Computer Science, and Electrical Engineering and Information Technology, is pursuing the goal of permanently converting three international master's programs into a hybrid format. Students should be able to study locally in Chemnitz or digitally from their home country at any point in their studies. In addition, the digital platform DigiAssist has been available since this year through the TUCinterdigital project to support international students in German-language degree programs in the introductory phase of their studies.



Centre for Knowledge and Technology Transfer

The regional project TalentTransfer Südwestsachsen, in which Chemnitz University of Technology, TU Bergakademie Freiberg, Mittweida University of Applied Sciences and Zwickau University of Applied Sciences cooperate, started its second funding phase in July 2021. The focus is again on networking between companies and students and graduates. Already established innovative event formats - such as the Career Days and the SPOTLIGHT series - are to be continued in the future. In order to support students and graduates in their transition to the professional world, the Career Service at Chemnitz University of Technology also invited participants to the digital, dialogue-oriented recruiting event TUCconnect in the spring and fall of 2021. More than 500 participants sought contact with about 30 companies via an app. In addition, numerous innovative, high-quality and thematically broad business concepts were submitted to the fourth TUClab competition. Of the six finalists, three start-ups were awarded prizes - with audory and Pinpoint also two spin-offs from Chemnitz University of Technology. audory is a platform for interactive audio books. The Pinpoint team is developing EasyLocate, a high-precision indoor navigation solution.



Foreign Language Centre

The Foreign Language Centre (ZFS) offered language training for more than 1,500 students in about 100 courses in the summer semester of 2021, including - due to continued high demand – Arabic language training. In addition, English, German as a foreign language, Spanish, Italian, French, Russian, Czech, Polish, Chinese and Latin were offered. All courses were again held online, with the teaching content transferred to virtual learning spaces by the instructors.

Center for Young Scientists

On October 1, 2021, Prof. Dr. Batu Güneysu was appointed to the first tenure-track professorship at Chemnitz University of Technology within the framework of the Federal-State Program for the Promotion of Young Scientists (WISNA). He is head of the W2 professorship of analysis with tenure-track to W3 at the Faculty of Mathematics. The subject of Prof. Dr. Güneysu's current research is, among other things, integration theory on infinite-dimensional spaces, which includes, for example, so-called loop spaces. In addition, Prof. Dr. Güneysu is engaged in the investigation of the connections of this theory with quantum mechanics and geometry.





Centre for Sports and Health Promotion

On December 8, 2021, Chemnitz University of Technology was awarded the excellence status associated with the special prize Healthy University for its Occupational Health Management (OHM) as part of the Corporate Health Award. This certifies that Chemnitz University of Technology is already pursuing excellent strategies in occupational health management among the 17 participating universities. For example, the university's Centre for Sports and Health Promotion, in cooperation with the Techniker health insurance company, ensures health offerings for the university's employees and students. In 2021, in addition to regular exercises and health courses, such as the Bewegte Pause (active breaks), thematically appropriate lectures and seminars were also offered.



Federal government funds research into digital rail technology with 17.75 million euros

In a web conference on January 21, 2021, Federal Minister of Transport Andreas Scheuer presented a funding decision for 17.75 million euros for research into the digital rail transport of the future as part of the Smart Rail Connectivity Campus (SRCC), ten million euros of which will go directly to Chemnitz University of Technology. This funding is primarily intended to support the transition to the new FRMCS (Future Railway Mobile Communication System) standard based on 5G. This is characterized by real-time data transmission as well as high reliability and is a basic prerequisite for the digital railroad test field within the SRCC. With the SRCC, Chemnitz Universi-

ty of Technology, Deutsche Bahn AG and other partners from research and industry want to test technologies for the digitization and automation of rail transport under real conditions on a 24.1-kilometer test track between Annaberg-Buchholz and Schwarzenberg. In the course of this, a new branch of Chemnitz University of Technology is being created with the conversion of the Untere Bahnhof in Annaberg-Buchholz into a modern research campus. In addition, as part of the Digital Rail Convention 2021 held in Annaberg-Buchholz in September 2021, the SRCC was declared a cluster location of the new German Center Mobility of the Future.





15 million euros in federal funding for the Refrigeration and Energy Technology Research Platform in Reichenbach in the Vogtland region of Germany

The German Federal Ministry of Education and Research (BMBF) is funding the establishment of a Refrigeration and Energy Technology Research Platform in Reichenbach in the Vogtland region by Chemnitz University of Technology, the Institut für Luft- und Kältetechnik gGmbH Dresden and the Fraunhofer Institute for Solar Energy Systems ISE Freiburg with a total of 15 million euros until April 2025. The funding is provided within the framework of the Seventh Energy Research Program of the BMBF. Thomas Rachel, Parliamentary State Secretary at the BMBF, handed over the corresponding funding notification in March 2021. The Chemnitz-based Professorship of Technical Thermodynamics (Head: Prof. Dr. Markus Richter) and its project coordinator

Prof. Dr. Thorsten Urbaneck are in charge of the KETEC project. Within the framework of the project, a new branch of Chemnitz University of Technology will be established in addition to a top research center for refrigeration and air conditioning technology. Within the framework of KETEC, new refrigerants and storage materials are to be investigated. Furthermore, the development of refrigeration machines, heat pumps, recoolers as well as heat and cold storage systems is planned. Accompanying research work is concerned with the application of information technology and artificial intelligence methods in this field. The research results and the platform are also to be used for academic education.



About our Students

Students create opportunities and more educational equity



Educational equality is not a matter of course - not even in Germany. Children and young people from socially disadvantaged families have fewer educational opportunities. This is precisely where the non-profit educational initiative ROCK YOUR LIFE! Chemnitz e. V., which is one of the recognized student initiatives of the Student Council of Chemnitz University of Technology, comes into play. Since 2015, students have been available to help fellow students with advice and support as mentors, serving as a sympathetic ear and helping young people develop their personalities. After all, it's no longer just about educational work, but also about giving young people the opportunity to "rock" their lives - in the spirit of the association's name.



Student of Chemnitz University of Technology built rescue camp for flood victims in the Ahr valley

Thousands of people lost their homes in the flood disaster in the Ahr Valley in July 2021. Lucas Bornschlegl, a student of Management and Organization Studies at Chemnitz University of Technology and a native of the Ahrweiler area, was one of the first to help. Together with local citizens, he founded the association Die AHRche e. V. and set up a steadily growing supply camp for those affected by the flood.

Sustainable: Student opens unwrapped store

Making the city more sustainable - that was the idea of Laura Schmid, who is studying economics at Chemnitz University of Technology. The idea became the Unverpackt-Laden (Unwrapped Store), which she opened in May 2021 in Chemnitz's Kaßberg district. This is a business idea that allows her to combine her economic and entrepreneurial knowledge from her studies with her personal convictions. In her 80-squaremeter store, regional foods, such as fresh fruit, vegetables, oil or sweets, as well as non-food and drugstore products can be purchased - without packaging.





Third issue of Turning Pages published

The Corona pandemic makes clear in a drastic way, among other things, the value of free travel. This also has an impact on literature and art. The third issue of the English-language creative writing journal Turning Pages therefore focuses on the topic of wanderlust. Writers, artists as well as students of Chemnitz University of Technology creatively dealt with this topic. The journal is published by the Chair of English Literature (Head: Prof. Dr. Cecile Sandten).

About Our Young Scientists

8th Day of Young Scientists in Online Format

Around 80 young scientists took part in the 8th Day of Young Scientists on November 11, 2021. The focus was on discussion rounds and lectures on research in a team, finding a topic for the dissertation and experiences on the way to a professorship. In addition, professors and other successful researchers gave valuable tips and advice on topics from their very individual CVs.







Outstanding young researchers receive awards

As in past years, many young scientists at Chemnitz University of Technology celebrated outstanding successes. Among them was Dr. Margarete Tiessen, research assistant at the Chair of Political Theory and History of Ideas (Head: Prof. Dr. Alexander Gallus). She received the prestigious prize of the Wolf-Erich Kellner Memorial Foundation for her dissertation at the University of Cambridge.

Dr. Sascha Schneider, research associate at the Chair of Psychology of Learning with Digital Media (Head: Prof. Dr. Günter Daniel Rey), was the first young scientist at Chemnitz University of Technology to receive the prestigious Erik De Corte Award from the European Association for Research on Learning and Instruction (EARLI) in 2021. He was awarded for his groundbreaking research on teaching and learning with digital media. Schneider's work had prevailed in the peer review process with the highest average rating.

First Round Table on Committee Work in the Academic Mid-Level



Young academics are to play an even greater role in shaping the university within the framework of various faculty and university committees in the academic mid-level faculty. In order to inform the actors about these possibilities and to network with each other, the first Round Table on Committee Work in the Academic Mid-Level took place in hybrid form on October 5, 2021. The seats in the Altes Heizhaus, which had been reduced due to the Covid 19 pandemic, were completely filled.

Many young scientists also joined online. In order to support the project and to offer the opportunity for exchange with the university management, the president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, also took part, who informed about current topics and got into conversation with the participants. The Round Table was organized by the Representative of the University Management for Young Scientists, Michael Schmischke. The organisation of the academic mid-level staff of Chemnitz University of Technology (VAMC) was also involved.

Awards and Grants

In order to recognize outstanding achievements, Chemnitz University of Technology awarded four teaching prizes, three research prizes and one transfer prize in 2021. The teaching prize for an exemplary course of study is endowed with 5,000 euros, all other prizes with 1,000 euros each. In addition, Chemnitz University of Technology awarded a total of 89 German scholarships in the academic year 2021/2022 as well as the prize from the German Academic Exchange Service (DAAD), which honors excellent achievements of foreign students or doctoral candidates at German universities. In addition, nine university prizes, each endowed with 1,000 euros, were awarded by Chemnitz University of Technology and the Society of Friends of Chemnitz University of Technology e. V. The best theses from all faculties and - for the first time - from the Centre for Teacher Training were honored. In addition, outstanding theses by young female scientists were awarded the Eleonore Dießner Prize and the Marie Pleißner Prize, each of which is endowed with 1,000 euros. Due to the Covid 19 pandemic, it was unfortunately not possible to present the awards in person at a ceremony.

University award winners at Chemnitz University of Technology in 2021: top row, from left: Vincent Rost, Dr. Pierre Max Landgraf, Magdalena Richter, Dr. Johannes Titz, Dr. Leonard Rößner; bottom row, from left: Andy Oertel, Dr. Franco Giovenzana, Florian Joch, Dr.

Peggy Matauschek. In 2021, the DAAD Award for Outstanding Achievements of Foreign Students or Doctoral Candidates at German Universities, endowed with 1,000 euros, was awarded to Dr. Jean Daniel Mukam from Cameroon, who received his doctorate in the field of analysis at the Faculty of Mathematics. The award from the German Academic Exchange Service recognizes his academic achievements at Chemnitz University of Technology, his personal qualifications as well as his social and intercultural commitment beyond his studies.

The University Prizes of the Year 2021 were awarded for their outstanding dissertations to Dr. Leonard Rößner (Faculty of Natural Sciences), Dr. Franco Giovenzana (Faculty of Mathematics), Dr. Pierre Max Landgraf (Faculty of Mechanical Engineering), Dr. Peggy Matauschek (Faculty of Humanities) and Dr. Johannes Titz (Faculty of Humanities and Social Sciences). Also honored were Florian Joch (Faculty of Electrical Engineering and Information Technology), Andy Oertel (Faculty of Computer Science) and Vincent Rost (Faculty of Business and Economics) for their master's theses and Magdalena Richter for her state examination thesis at the Centre for Teacher Training.



The Eleonore Dießner Prize was awarded to Inka Schmitz (Faculty of Natural Sciences), Theresa Wagner (Faculty of Mathematics), Alina Joanna Meyer (Faculty of Mechanical Engineering), Kerstin Schuchardt (Faculty of Electrical Engineering and Information Technology) and Anne Münzner (Faculty of Computer Science). Diana Heinbucher (Faculty of Economics), Judith Thorwart (Faculty of Philosophy), Sabrina Bräuer (Faculty of Human and Social Sciences) and Lillian Klärner (Centre for Teacher Training) were awarded the Marie Pleißner Prize.



Eleonore Dießner Award winners: top row, from left: Inka Schmitz, Theresa Wagner, Alina Joanna Meyer, Kerstin Schuchardt, Anne Münzner; Marie Pleissner Award winners: bottom row, from left: Diana Heinbucher, Judith Thor-

wart, Sabrina Bräuer, Lillian Klärner.

















The "Course-Related Teaching Award" honors a course of study that stands for the implementation of excellent teaching in an exemplary manner. The award was given to the research- and application-oriented Human Movement Science master's program, among other things for its didactically diverse and interdisciplinary concept. International cooperation also enables students to gain experience abroad. In addition, students have access to excellent equipment for internships and independent research activities.

The "Teaching Award for the Use of Digital Technologies to Promote Learning", sponsored by the msg systems ag, was awarded twice. The first teaching prize was awarded for the concept Innovative work science - digital tools for learner-centered design of university teaching by the Chair of Work Science and Innovation Management. Its head, Prof. Dr. Angelika Bullinger-Hoffmann, as well as Dr. Kerstin Börner and Aline Lohse (from left) designed a digital teaching-learning space for the professorship's basic lecture.

Dr. Daniel Pietschmann from the Institute for Media Research received the second teaching award for the module Scientific Practice. With the exercises Scientific Work and Scientific Writing for students in the first year of the bachelor's degree programs Media Communication and Computer and Communication Sciences, self-directed learning is combined with feedback and discussions in live events using BigBlueButton. Practical relevance is achieved through exercises that are close to everyday life.

For the teaching concept Mathematical Foundations of Big Data Analytics, the "Teaching Award for Innovative Teaching", sponsored by GPP Chemnitz - Gesellschaft für Prozessrechnerprogrammierung mbH, was awarded to Prof. Dr. Vladimir Shikhman (r.) and David Müller from the Chair of Business Mathematics. It was especially appreciated that Big Data Analytics is a rather new subject. Among other things, the publication in a textbook created an interdisciplinary canon of topics for Big Data Analytics.

The "Teaching Award for Teaching Young Scientists" was awarded to Dr. Freddy Sichting from the Chair of Human Movement Sciences for his successful combination of research and teaching. His portfolio includes lectures, seminars and exercises in synchronous and interactive as well as asynchronous form in German and English. He uses various teaching methods and employs online videos, live feedback systems as well as scripts, motivational questions and active breaks in his teaching.

Dr. Franziska Nestler from the Chair of Applied Functional Analysis received the research award in the category "DFG/BMBF - Research Award for a successful DFG initial application or a first successful acquisition of a BMBF-funded project". She successfully acquired funding of approximately 1.6 million euros from the German Federal Ministry of Education and Research for the establishment of a junior research group in the field of Artificial Intelligence: The prize was sponsored by Haufe-Lexware GmbH & Co. KG sponsored.

The research prize in the category "Industry - First successful acquisition of an industry-funded research project" was awarded to Maximilian Goller from the Chair of Power Electronics for the Ruggedness and Reliability of GaN Power Device project. The research project investigates the reliability and ruggedness of gallium nitride-based power semiconductors. These enable more efficient energy conversion and electrical energy savings. The research award was sponsored by AKKA Technologies.

The research prize in the "EU - First successful project acquisition from EU funds" category was awarded to Prof. Dr. Daisy Nestler from the Chair of Structural Engineering and Plastics Processing for the Ceramics with sensing capabilities for high-temperature applications, CENTAUR project. The project, led by Chemnitz University of Technology, aims to produce functionalized composite materials for aerospace and automotive applications, among others. This research award was sponsored by wohnen in chemnitz gmbh.

The Transfer Award in the "Continuing Education, Lifelong Learning and Other Socially Relevant Contributions" category went to Anna Lanfermann (2nd from left) from the Faculty of Mechanical Engineering and her team for the conception, acquisition of funding and implementation of the "textile trainer" - a digital learning platform for the Saxon textile industry. Among other things, the use of innovative methodological teaching/learning approaches and technologies was honored. The transfer award was sponsored by TUCed - An-Institut für Transfer und Weiterbildung GmbH.

Participation and Inclusion

Inclusive service offerings improve digital accessibility



Chemnitz University of Technology is consistently pushing ahead with its development on the way to becoming an inclusive university. The central player in this is the inclusion and accessibility team at Chemnitz University of Technology, which includes Dr. Daniela Menzel, Coordinator for Inclusion at Chemnitz University of Technology, and Dr. Uwe Dombeck, Central Web Coordinator. In 2021, they published an interim report on completed, ongoing, and still planned projects on the topic of accessibility on the university's website. Among other things, licenses for Adobe Acrobat Professional DC were procured to convert documents barrierfree for the web. In addition, support staff were deployed in many structural areas to make web pages and documents accessible. Support services were greatly expanded with the OPAL forum, weekly office hours, and in-house training. In order to push this process, Chemnitz University of Technology also used its own funds on a relatively large scale for the first time in 2021. As a result of the diverse efforts, Chemnitz University of Technology now plays a pioneering role in the field of accessibility in comparison with other universities in Saxony.

Lauf-KulTour launched a "Saxony Edition" for the first time

The Chemnitz sports club "Lauf-KulTour," in which students, employees and alumni of Chemnitz University of Technology participate every year, ran and cycled through Saxony for the first time in 2021 using the duathlon principle. The team started from Chemnitz on foot and by bike to various locations in the Free State every day from August 27 to 31. In addition to the sporting challenge, the run once again served a good purpose: During the tour, donations were collected for children and young people suffering from Duchenne muscular dystrophy.



Prof. Dr. Kai Oppermann, holder of the Chair of International Politics at Chemnitz University of Technology, spoke at the Senior Citizens' College on the causes and consequences of Brexit.

Digital learning opportunities

The offerings of the Children's University and the Senior Citizens' College were digitized in order to maintain the educational offering for both age groups during the Corona pandemic. Interactive videos were shown as part of the children's university, including topics such as how to listen properly, the problem of garbage, and yoga exercises in the living room. Senior citizens were also able to further their education in digital language courses and live lectures, as well as by attending selected digital courses at the university. The lectures by Prof. Dr. Stephan Mühlig from the Institute of Psychology on exercise as a therapeutic approach to depression in old age and by Prof. Dr. Kai Oppermann from the Institute of Political Science on the causes and consequences of Brexit were particularly popular.

Accolades

Congratulations on successful completion of vocational training and welcoming new trainees

Kim Westermann, Jasmin Zeier, Maurice de Haas and Oliver Schleicher have successfully completed their vocational training at Chemnitz University of Technology in 2021. Zeier and Schleicher completed a three-year apprenticeship as administrative assistants in the field of state and local administration. Westermann and de Haas successfully completed their training as office management assistants, also after three years. The president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, and the acting chancellor, Thomas Lang, personally congratulated the apprentices and wished them all the best for their future.

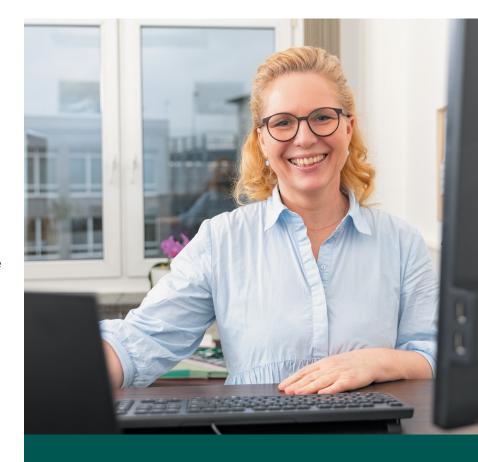




On September 1, 2021, seven trainees began their vocational training as administrative assistants, office management assistants, or media and information services assistants, specializing in libraries. The new trainees got to know the university during the first two days of training as part of an introduction. The new trainees were also personally welcomed by Prof. Dr. Gerd Strohmeier, President of Chemnitz University of Technology, and by the acting Chancellor, Thomas Lang.

Kick-off events for new employees in digital format

Chemnitz University of Technology traditionally welcomes new employees at a kick-off, which is also attended by the president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, and the acting chancellor, Thomas Lang, among others. In 2021, four events took place in a digital format. A total of 91 new employees got into a conversation, including Janine Nikoleit (pictured), who has started work in the secretariat of the Chair of Human Movement Sciences. She explained in the round: "I go to the university in the morning with a smile and out again in the afternoon with a smile. I have been warmly welcomed into the team of our professorship. You can feel the team spirit every day, as everyone is willing to do more than just their duty. Here you experience working conditions that you look forward to every day."



Campus Development



New laboratory building at the MERGE Research Centre Lightweight Technologies

The new laboratory building at Chemnitz University of Technology's MERGE research cluster started its research operations in January 2021. With a total space of 1,486 square meters, the production of novel, energy- and resource-saving materials will be investigated and analyzed there. In addition to highly specialized laboratories, the new building offers office, internship and meeting rooms. The Staatsbetrieb Sächsisches Immobilien- und Baumanagement (SIB) constructed this new laboratory building from August 2018 to October 2020. The Free State of Saxony invested around 14.5 million euros, a large part of which came from the European Regional Development Fund (ERDF).

Start of construction for laboratory and sports hall complex on campus

In addition to the sports facilities, a new laboratory and sports hall complex is being built on the campus on Reichenhainer Straße in order to concentrate teaching in the field of sports at Chem-



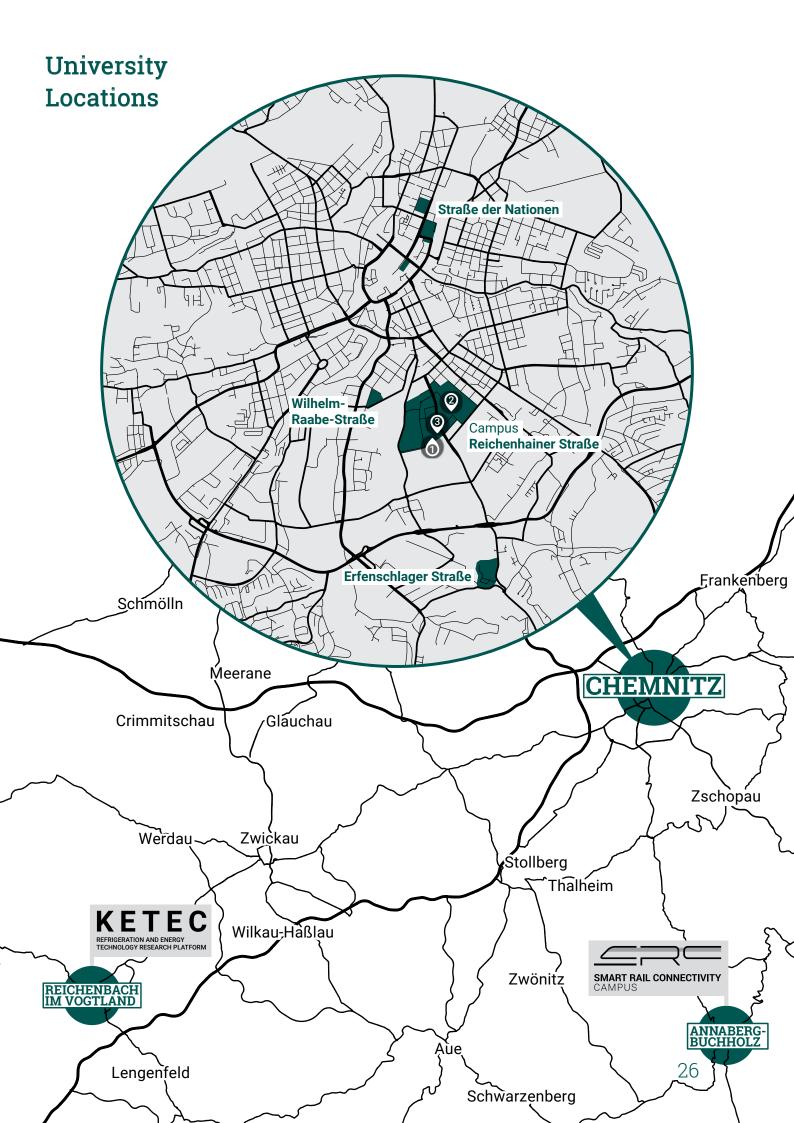
The laboratory and sports hall complex includes a light-flooded three-field sports hall and an adjacent institute building.

nitz University of Technology as well as essential parts of exercise science research in one place. The first section of the new sports hall, which will also serve as a replacement for the sports hall on Thüringer Weg, is scheduled for completion by mid-2023. By 2024, the adjacent laboratory building with gymnastics and cardio area will be completed. Construction is being coordinated by the Chemnitz branch of the Sächsisches Immobilien- und Baumanagement (SIB) state enterprise. The total construction costs are around 23 million euros, which will be financed by funds from the European Regional Development Fund (ERDF) and tax revenue based on the budget passed by the Saxon state parliament.



Improved quality of life on the campus square

In the course of the campus square design on Reichenhainer Straße, two table tennis tables were installed - in front of the lecture hall building and in front of the cafeteria. In addition, outdoor games (including badminton, bocce, Viking game, kubb, balance tower) can now be rented from the cafeteria. This is another visible step to increase the quality of life in this area. The procurement of the table tennis tables and games, worth 4,000 euros, was financed as part of the Sustainable Campus Design initiative, for which University Management provided a budget totaling 100,000 euros. The project was driven by Prof. Dr. Marlen Gabriele Arnold, holder of the Chair of Business Administration - Operational Environmental Economics and Sustainability and Presidential Representative for Sustainable Campus Development. Regarding further measures for the design of the campus square, the Department of Construction and Technology, the student initiatives NATUC and Students for Future as well as the AG Wertschätzung (UAG Sportmöglichkeiten) are in discussion with the city of Chemnitz and the Studentenwerk Chemnitz-Zwickau.



Partner University of Elite Sports



Chemnitz University of Technology offers exceptional athletes the best conditions to reconcile their athletic careers with their studies. To this end, Chemnitz University of Technology has been cooperating with the Olympic Training Center Chemnitz/ Dresden and the German University Sports Association (adh) since 2002. In 2021, 23 top athletes from 14 sports were part of the program. Among them is Max Heß, who is studying industrial engineering. He won the gold medal at the 2021 German Indoor Championships in Braunschweig for the fifth time. He won bronze at the 2021 European Indoor Championships in Torun. For these outstanding sporting achievements, he was allowed to sign the Golden Book of the city of Chemnitz. With a new personal best at the German Indoor Championships, Corinna Schwab, a student of economics, defended her gold medal from the previous year. Sprinter Rebekka Haase, who is studying psychology, finished third in the 100 meters at the German Track and Field Championships in Braunschweig. At the 2021 Olympics in Tokyo, she achieved the third-best time in the preliminary heat of the women's sprint relay in the 4x100 meters and reached the finals of the Olympics with the relay team. Triple jumper Maria Purtsa, who studied psychology at the university until her successful graduation in 2021, jumped over the 14-meter mark for the first time at the German Athletics Championships. With this top result, Purtsa secured the bronze medal. For her outstanding athletic achievements, she received the SPORT Chemmy in 2021 for 2019 and 2020.

Jost Kobusch is studying Sports Engineering in Chemnitz and is one of Germany's most ambitious young alpinists. His goal is to climb Mount Everest for the first time in winter, solo and without aid. After he had to abandon this project in the winter of 2018/19 due to an injury at an altitude of 7,350 meters, he tried again in 2021 and therefore traveled to Nepal in November. In preparation, he was the first to climb the still unclimbed and 6,456 meter high Putrun Himal.



Sarah Göpfert is studying for a master's degree in Value Chain Management and is a successful motorcycle athlete. Göpfert rides in the Yamaha R3 Cup. In this class, mainly young female and male riders compete against each other. In two competitions in July 2021 in Schleiz (Thuringia), she took 1st and 4th place.

Michelle Süß studies elementary education at Chemnitz University of Technology and is a member of the national karate squad. Süß fights in the discipline Kumite, or direct duel, and is very successful in her weight class. Among the special successes is the first place at the Goju-Ryu World Cup in Malaysia 2020 in the age group U18. In 2021 she reached 3rd place in the age-independent performance class at the German Karate Championship in Berlin.





Corona in Focus at Chemnitz University of Technology

The Corona pandemic has massively changed the life of every individual as well as coexistence in society. Therefore, it is increasingly becoming the subject of research as well as specific measures at Chemnitz University of Technology.



Why surveys on vaccination rates can be off the mark

An experimental method study by Chemnitz University of Technology and the University of Konstanz indicates an overestimation of the vaccination rate against Covid-19 in population surveys. As reasons, the researchers involved found that the effect of "social desirability" in survey studies can lead respondents to falsely report vaccination against Covid-19 even when it has not occurred. The study was led by Prof. Dr. Jochen Mayerl, Chair of Sociology with a focus on Empirical Social Research at Chemnitz University of Technology, and Dr. Felix Wolter, Research Associate at the Chair of Micro Sociology at the University of Konstanz.

Chemnitz University of Technology supported school-based language support classes

The pandemic-related school closures in the lockdown have also led to negative consequences for the language acquisition of elementary school students in the subject German as a contemporary language (DaZ). In the summer semester of 2021 and the winter semester of 2021/2022, the Chair of German as a Foreign and Second Language (Head: Prof. Dr. Winfried Thielmann) at Chemnitz University of Technology therefore became involved in this area and offered additional online support lessons for primary school children from Chemnitz DaZ classes. The program enabled students of the teacher training extension subject DaZ to observe lessons and gain teaching experience in the online format.



Praise for Chemnitz University of Technology's handling of the Corona pandemic



The student survey TUCpanel at Chemnitz University of Technology in 2021 was particularly focused on the effects of the Corona pandemic on studying and teaching. In this context, 76 percent of the bachelor's and 71 percent of the master's students surveyed at Chemnitz University of Technology were satisfied with their studies at Chemnitz University of Technology despite the stresses of the past two semesters. In addition, 70 percent of the bachelor's and 73 percent of the master's students surveyed said they appreciated the way Chemnitz University of Technology handled the Corona pandemic. This includes the university's clear position and the extensive switch to online teaching and examinations. Only just under one-fifth of the bachelor's students surveyed and one-third of the master's students surveyed said that online examinations had in many cases been accompanied by greater time pressure and more workload. Around a quarter of the students at Chemnitz University of Technology took part in the TUCpanel.



TUCdiscover campaign with virtual lecture hall building and TUC.K.I. chat robot

The Virtual TUCdays in January and in June 2021 at Chemnitz University of Technology took place with numerous visual and interactive elements. These included a discovery tour in the virtual lecture hall building developed by the University Computer Center. In addition, the chat robot TUC.K.I. was introduced, which answers questions about studying and constantly learns via Al. The landing page www.study-in-chemnitz.com presented, among other things, an online offering with video clips and live chats. This portal recorded around 400,000 page views in January and around 300,000 in June - three to five times more hits than in an average month. Around 100 social media posts about the Virtual TUCdays also generated a total of one million impressions. Around 6,000 people shared the content, commented on it or obtained further information.



First Hybrid Enrollment and Convocation

Around 1,900 new students started their studies at Chemnitz University of Technology during the winter semester 2021/22. Due to the pandemic, the traditional enrollment and convocation took place for the first time in hybrid form on October 12, 2021. While around 100 new students, selected via lottery, followed the event in Chemnitz' St. Petri Church, the majority were connected from home. In addition to the president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, representatives of the Chemnitz University of Technology Student Council as well as the mayor for law, safety and environmental protection of the city of Chemnitz, Miko Runkel, gave welcoming speeches. The keynote speech was given by university graduate Jenny Geuthel.

Graduation ceremony digital for the first time

On March 20, 2021, 330 graduates, doctoral and post-doctoral students, who were connected worldwide, experienced the first digital graduation ceremony at Chemnitz University of Technology. To ensure that the traditional highlight of this academic ceremony - the hat toss - could take place despite pandemic-related hybrid implementation, many participants had ordered their caps in advance from the university store. Some had also submitted their best university moments in words and pictures for a slideshow. The program also included a greeting from the president, Prof. Dr. Gerd Strohmeier, and anecdotes from poetry slammer Eric Leichter.



Chemnitz University of Technology successful in Stifterverband's "One University - One Book" competition

In 2021, Chemnitz University of Technology was successful with its Collaborative Research Center Hybrid Societies in the call for proposals for the "One University - One Book" program put on by the Donors' Association for the Promotion of Sciences and Humanities in Germany and the Klaus Tschira Foundation in cooperation with ZEIT Verlag. Chemnitz University of Technology received a project grant of 10,000 euros for their project idea of "Chemnitz Reads Asimov - Discover - Confront - Think Further" and the innovative involvement of the university public and city society as part of the Chemnitz 2025 Capital of Culture program.

Social Media Highlights

Which social media posts from Chemnitz University of Technology were able to inspire the most people in 2021? The following illustration is sorted by platform and shows the top 3 of the respective posts. Their reach or the number of video views were decisive criteria for the selection.

Facebook @tuchemnitz

The most successful post on Facebook was the event notice about the first TUCday 2021, followed by the video post about the campus tour by the Vice President for Academic and International Affairs, Prof. Dr. Maximilian Eibl, as part of the second TUCday 2021 (p. 29). In third place was the post on the success of the innovation cluster HZwo e. V. - which is very closely linked to Chemnitz University of Technology - in the tender for a hydrogen research and innovation center of the federal government (p. 3).



Twitter @tuchemnitz The English tweet with the an

The English tweet with the announcement of the symposium "Open Science and Replicability in the Behavioural Social Sciences" reached many people (p. 12). In second place came the tweet on the news that the Chemnitz proposal reached the finals in the competition for the national hydrogen technology center. In third place came the posting on the success of the application with the concept of the Hydrogen and Mobility Innovation Center (HIC).



YouTube TU Chemnitz

On YouTube, a particularly large number of people wanted to see the video "11 + 1 reasons to study in Chemnitz." The original video with ten reasons was created as part of the TUCdiscover campaign (p. 29) and was supplemented with another reason after the success of the city of Chemnitz in the Capital of Culture bid. The video with the "10 best yoga exercises for the home office" with researcher Karin Matko achieved the second most views. In third place came the course video entitled "Studying Physics at Chemnitz University of Technology."





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Instagram @tuchemnitz

On Instagram, the post on the rainbow color logo (p. 6) of Chemnitz University of Technology was able to inspire a particularly large number of people. The background to the campaign was UEFA's decision not to allow the Allianz Arena in Munich to be lit up in rainbow colors - as requested by the city of Munich - during the German national soccer team's last European Championship preliminary round match against Hungary. The second most likes went to an atmospheric sunset photo showing the lecture hall building and the Weinhold Building at Chemnitz University of Technology. Third place went to a winter photo showing the Weinhold building and the campus square in the snow.





Contributions to the European Capital of Culture 2025

New logo of Chemnitz University of Technology with clear reference to the Capital of Culture

With a view to the Capital of Culture Year 2025, Chemnitz University of Technology gave itself a new logo in September 2021. It was developed on behalf of the university management with the aim of making the extremely close connection between Chemnitz University of Technology and the Chemnitz Capital of Culture 2025 even more visible. Two logos had previously been submitted to the university's members and affiliates for a vote, in which the logo now in use narrowly prevailed.

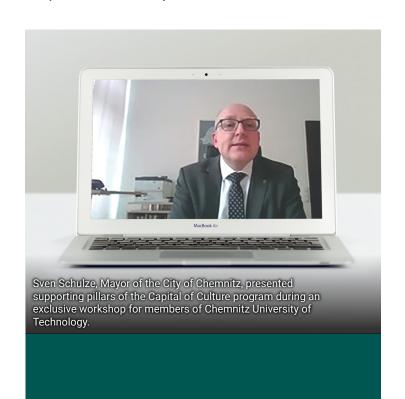


Chemnitz University of Technology and University of Nova Gorica (Slovenia) reach cooperation agreement

Chemnitz University of Technology and the University of Nova Gorica (Slovenia) are universities in the Capitals of Culture 2025 and want to jointly provide cross-border impulses for the design of the Capital of Culture year in the spirit of the European idea. After successful contact was initiated by Chemnitz University of Technology, both universities concluded a cooperation agreement in July 2021. The cooperation agreement not only creates a bridge between the two Capitals of Culture, but also a platform for an exchange in research and teaching. Prof. Dr. Peter Purg, member of the Academy of Arts at the University of Nova Gorica, traveled to Chemnitz in the summer of 2021 for a first personal meeting. There he met stakeholders of the Capital of Culture Chemnitz 2025, including Prof. Dr. Ellen Fricke, Dean of the Faculty of Humanities at Chemnitz University of Technology. In 2021, the University of Nova Gorica also joined the UNIVERS Alliance.

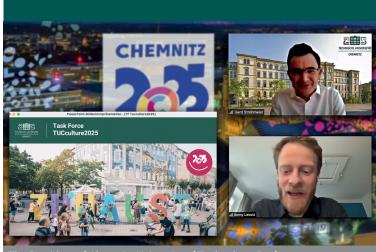
Workshop with the Mayor of Chemnitz

On April 30, 2021, at the invitation of the university management, Chemnitz Mayor Sven Schulze informed more than 100 participants from various areas at Chemnitz University of Technology about additional steps on the way to the European Capital of Culture 2025 in the context of a digital information event. In particular, he solicited university participation in the areas of international cooperation and microprojects. During the workshop, some members of the university explained how they wanted to get involved. The mayor made it clear that the title European Capital of Culture 2025 represents "a great opportunity for Chemnitz." Based on the experiences of other capitals of culture, two million people are expected to visit Chemnitz in 2025.



Task Force "TUCculture2025" pushes ahead intensively with preparations for the Capital of Culture Year

As a central player, Chemnitz University of Technology is intensively involved in the Capital of Culture Chemnitz 2025 project. An important platform in this context is the TUCculture2025 task force, which was created after an internal university workshop on the topic in December 2021. In addition to the president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, more than 20 representatives of all eight faculties as well as the Centre for Teacher Training, the central institutions, the administration, the staff council and students of Chemnitz University of Technology participated in the first digital meeting of the task force. Thus, the task force forms a platform that brings together representatives of all structural units and member groups in order to prepare the Capital of Culture Year as a university expert body.



The President of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier (pictured above), welcomed the members of the TUCculture2025 task force at their first meeting. Dr. Benny Liebold, head of the International Office, moderated the meeting.



"Making the Capital of Culture!"

The president of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier, gave a keynote speech at the 3hoch3 - Industry, Science, Creative Industries in Conversation event series on the topic "Making the Capital of Culture!" on April 22, 2021. The president made it clear that Chemnitz University of Technology has actively supported the Capital of Culture application in many ways and will make a significant contribution to shaping the Capital of Culture 2025. The event took place within the framework of WerkSchau2021 in cooperation with the Industrieverein Sachsen 1828 e. V. and the Kreatives Chemnitz e. V.





The study entitled Active for the European Capital of Culture 2025 is available online on the document and publication server of Chemnitz University of Technology. www.mytuc.org/dwwt

"Active for the European Capital of Culture 2025" study published

Chemnitz University of Technology is not only driving the preparations and the program for the Capital of Culture Year with impulses and initiatives, it also accompanies corresponding activities academically. This includes the establishment of a junior professorship of European Culture and Civil Society at the Institute for European Studies in the Faculty of Humanities at Chemnitz University of Technology. In 2019, Jun.-Prof. Dr. Thomas Laux became the holder of this junior professorship. In 2021, he and his team published a study, which was conducted with the participation of students and for the first time provides insight into the perception of the application process by the clubs, associations and initiatives involved in it as representatives of civil society. In addition, the study provided new information about the motives of the aforementioned local actors and their expectations for the Capital of Culture year 2025.

Facts and Figures



9670 students
were enrolled in the winter semester of 2021/2022, including 4357 women.

1664



graduates completed their studies at Chemnitz University of Technology in the examination year 2021.





1292 projects financed by third-party funds in 2021



2298

people worked at the university, about 44% of them financed by third-party funds.



30,4% international students from 87 countries studied at Chemnitz University of Technology in 2021.



DFG-Collaborative Research Center and participations in DFG Collaborative Research Center /transregios (one of them as a co-applicant institution) were among the major research projects of Chemnitz University of Technology in 2021.

97 **study programs**were offered by the 8 fa

were offered by the 8 faculties and the Centre for Teacher Training in the winter semester 2021/2022: 35 bachelor's and 58 master's degree programs, 2 diploma programs, and 2 degree programs at the Centre for Teacher Training.



168 professorships existed at Chemnitz University of Technology in 2021. In addition, there were 9 established junior professorships. 89 German scholarships were obtained in 2021.

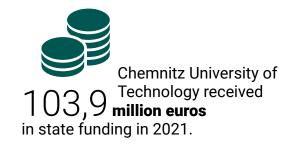
Chemnitz University
of Technology has

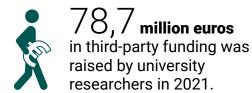
core competencies in which impoartant
questions of the future are addressed:
Materials and Intelligent Systems, Resource
Efficient Production and Lightweight Construction,
and Humans and Technology.

12 companies were spun off in 2021 with the support of Chemnitz University of Technology, the start-up network SAXEED and TUClab. In addition, 49 additional start-up projects were supported in Chemnitz.



by university members and staff appeared in 2021 and can be found in the university bibliography.









1,2 million printed books and journals and 150000 digital media were made available by the University Library in 2021. 12500 library users appreciated this.

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I have completed the Bachelor's and Master's degree program in Industrial Engineering and Management at Chemnitz University of Technology. The program provides a comprehensive overview of economics and engineering and offers many elective and specialization options. The contents are taught in a scientific and yet practical manner. Particularly interesting is the extensive exchange program at Chemnitz University of Technology, which enables students to study abroad. Thanks to the many technical companies in Chemnitz, it is very easy to gain practical experience while studying as a working student or intern. The study program prepared me very well for my current practical work and my doctorate in mechanical engineering at the university. I can highly recommend this degree program.

Chris, studied industrial engineering (B.Sc./M.Sc.)

Source: studycheck.de

I did my master's degree in psychology at Chemnitz University of Technology. If you value individuality, familiar structures as well as top organization and don't want to be just a number in the system, Chemnitz University of Technology is the right place for you.

Maria Purtsa, studied Psychology (M.Sc.)

Source: Instagram-Video

(...) quality teaching, expert professionals, lots of research resources. The standard of education has remained on its top for so many years and going on. Main campus with some old building interiors gives still the vibes of European culture. It holds one of the important contributions in the city's recognition in entire Europe.

Ninad Kulkarni

Source: Google-Bewertung

Ni hao ("Hello"), I studied the master's program Intercultural Communication and Intercultural Competence (IKK) at Chemnitz University of Technology and received a lot of support from the professors and the academic staff of the Faculty of Humanities during this time. The studies gave me a lot of room for development and opened up professional opportunities. I stayed in Chemnitz after graduation and work nearby. I have my social contacts here and am happy about the good development of the city.

Ziyu Chen (in picture), studied Intercultural Communication and Intercultural Competence (M.A.)

Source: proactive email, January 23, 2022.

Ziyu Chen (in picture), studied Intercultural Communication and Intercultural Competence (M.A.)

Source: proactive email, January 23, 2022.



CONTACT

University Management

Address

Telephone

E-Mail

Straße der Nationen 62

09111 Chemnitz

+49 371 531-10000

rektor@tu-chemnitz.de

Pressestelle und Crossmedia-Redaktion

Address

Straße der Nationen 62 09111 Chemnitz

Telephone

E-Mail

+49 371 531-10040 pressestelle@tu-chemnitz.de