



TECHNISCHE UNIVERSITÄT
CHEMNITZ

TUCreport 2018

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2018



Dear Readers,

We would again like to take a look back at the past year with another TUCreport – without attempting to lay claim to capturing all of the important happenings that took place over the past year. Instead, we would like to highlight a selection of noteworthy events and moments, and in doing so, give a cross-section of the entire university and its different domains.

For our university, the year 2018 was characterized by some very gratifying developments, such as the continuation of the Primary School Teacher Training Program. Without a doubt there were also highly unpleasant developments in 2018. I am referring in particular to the events of August 26th and what has followed – events that have shaken us and challenged us in many ways and will continue to challenge us in the future.

As in 2017, University Management strove not only to manage but to shape – and in doing so placed new emphasis in many areas and set the course for the future. We have undertaken, among other things, the updating of our University Development Plan through 2025, the completion of faculty objective agreements through 2020, the drafting of a personnel development plan, a binding agreement on the framework that deals with the handling of fixed-term employment and the advancement of career prospects at universities in the Free State of Saxony, the policy decision to implement a tenure track career path for professors, and the policy decision to financially assist the conversion of the Cluster of Excellence MERGE into various new primary research projects.

I would like to extend my heartfelt thanks to all members of the Chemnitz University community – the entire family – for their excellent, effective cooperation throughout 2018. I would also like to extend my gratitude to the Senate, the deans and faculties, our central institutions, the University Administration, the Staff Council, the Student Council, the Scientific Staff Association, the members of University Management as well as the staff members of the Office of the President and of course, the University Council. I am firmly convinced that we have again achieved a great deal together in the past year for our university – and this would not have been possible without the tireless commitment of countless colleagues, employees and students, nor without extremely close, successful, constructive cooperation between the various administrative bodies of Chemnitz University of Technology.

I hope you enjoy reading about our year in review, and I would be pleased to receive your feedback on this edition of TUCreport!

Prof. Dr. Gerd Strohmeier
President, Chemnitz University of Technology

University Highlights

Most International Uni in Saxony

Among the 30 biggest cities in Germany, Chemnitz is the university city that international students find the most appealing. Based on the number of enrolled international students, Chemnitz University of Technology is the most international university in Saxony, and is ranked 4th among all state universities in Germany. Around 29 percent of the students at the university come from another country, representing nearly 100 different countries.

Source: Berenberg-Städteranking 2017, Studentenstatistik Statistisches Bundesamt



One of the Best Middle-Sized Universities for Start-ups

According to a report from Gründungsradar 2018, Chemnitz University of Technology is among the top ten middle-sized higher education institutions in Germany for start-ups.

Since 2006, the start-up network SAXEED has successfully led over 150 projects to launch, of which 45 are technology-oriented firms with high growth potential. This includes the entrepreneur team of NAVENTIK GmbH (pictured), who are featured in the current Gründungsradar as one of four successful cases in Germany.

Top Spots in the DFG Funding Atlas

Chemnitz University of Technology was acknowledged in the 2018 German Research Foundation (DFG) Funding Atlas for outstanding activity in the acquisition of third-party funding. In a federal comparison, the university achieved 5th place in the area of Engineering, with roughly 676,800 euros per professor procured between 2014 and 2016. In Materials Science and Engineering, Chemnitz University of Technology achieved 8th place, and if only Materials Engineering is considered, 4th place. In the field of Mechanical Engineering and Manufacturing Technology, 8th place was achieved. In Information and Communication Technologies, the university landed in 10th place in direct Federal Research and Development funding.



Teaching Mission Statement Adopted

In the Teaching Mission Statement that was adopted in 2018, Chemnitz University of Technology's self-image with regard to teaching can be found in short and understandable form. The mission statement contains basic principles such as the unity of research and teaching, as well as overarching goals such as commitment to the formation of independent, ethical, critically reflective and socially responsible individuals. The Teaching Mission Statement is an essential building block on the way to system accreditation.

Teaching Mission Statement on the web:
mytuc.org/gzhz

From University Management



In **Higher Education Policy** and **University Development**:

- Chemnitz University of Technology's University Development Plan was updated through 2025 and faculty objective agreements with all 8 Faculties were completed through 2020.
- A personnel development plan and a binding regulation on the framework that deals with fixed-term employment and the advancing of career prospects at universities in the Free State of Saxony were developed, adopted and signed.
- The Primary School Teacher Training Program was extended in principle via the provision of 29 permanent positions by the Free State of Saxony.
- Diverse social and family-based policies were introduced or implemented, including an action plan to implement the UN Treaty on the Rights of Persons with Disabilities, signing the Family at the University Charter, and signing a cooperation agreement with Techniker Krankenkasse for health insurance coverage.
- A W2 Professorship position, including a E13 staff position from the "Innovation Pool" was awarded in a competitive process.



In **Research**:

- The conversion of the Cluster of Excellence MERGE into new primary research projects was facilitated.
- The package of measures that supports initiatives for Collaborative Research Centers/SFB-Transregios was extended.
- Working groups for the core competencies of Chemnitz University of Technology were established.
- The decision was made to create a lump sum central research budget (consisting of 50% of earned funding), and to allocate half of these funds to the faculties.
- Research awards were introduced at Chemnitz University of Technology.



Our **Young Scientists**:

- The policy decision to implement tenure track professorship as a career path at Chemnitz University of Technology has been passed, and tenure track regulations have been worked out.
- The policy decision was made to participate in the Bund-Länder Program for the promotion of young scientists.
- The criteria for the fixed terms of scientific staff employment at the faculties' service facilities has been adjusted, in consultation with the Staff Council.



In **Teaching:**

- A Teaching Mission Statement was adopted, and a project plan for the further development of Chemnitz University of Technology's quality management system was established.
- An evaluation regulation has been prepared for further discussion in various university administrative bodies.
- A Representative for Students has been chosen from the student body.
- Teaching awards have been introduced at Chemnitz University of Technology.



In **International Affairs:**

- Our Internationalization Strategy has been further implemented, and we have achieved an all-time high in the raising of DAAD Funds.
- A memorandum of understanding was signed with BGMEA University of Fashion and Technology in Bangladesh.
- A memorandum of understanding was signed with the Hefei High-Tech Industry Development Zone in China.



In **Transfer and Academic Qualification:**

- The TUClab ("We move Start-ups forward.") was established, with support from the SMWK as well as the SAB, thereby creating more comprehensive support for start-up activities.
- A plan was developed for a Research Campus (the "Smart Rail Connectivity-Campus") in Annaberg-Buchholz.
- The TUConnect career fair was organized, together in part with the Industrieverein Sachsen 1828's "Day of Science and Industry" event.
- The "full cost calculation" was further developed.
- Transfer awards have been introduced at Chemnitz University of Technology.




In **University Communications:**

- A clear and comprehensive reaction was given to the events of August 26th and their aftermath.
- A diverse array of events were held, such as the 2nd Parliamentary Evening, the 2nd TUCsommernacht, the Campus and Sport Fest along with the first "Health Day", a public viewing of the World Cup and the TUCtag 2018.
- New communication formats were brought forth, such as the podcast "TUCscicast" and an array of new video formats. Existing opportunities for discussion and participation were also further expanded, such as visits from University Leadership to the various faculties and central institutions, and engagement of the faculty and the university community at large in the shaping of important decisions and positions taken by the University Management.



From Our Faculties



In the laboratory of the Professorship of Solid Surface Analysis at Chemnitz University of Technology, a structured silicon carbide crystal is heated in a preparation chamber of a scanning tunneling microscope, so that the smallest graphene structures can develop.

Faculty of Natural Sciences

Together, researchers from across Europe have opened the door a bit wider for computers that are hardly warming up: Prof. Dr. Christoph Tegenkamp from the Professorship of Solid Surface Analysis at Chemnitz University of Technology, in cooperation with researchers from Twente University (Netherlands) and the Max IV laboratory in Lund (Sweden), is successfully producing and characterizing so-called ballistic wires. This is an important step for the further miniaturization of electronic components and the increasing of clock frequencies. In cooperation with theorists from Copenhagen and Barcelona, it was also possible to clarify the effects of electron transport. The targeted functionalization of carbon-based nanostructures now makes it possible, for the first time, to directly map current paths and thus open the way for innovative quantum devices.



Faculty of Mathematics

On June 23rd, 2018, the Faculty of Mathematics held the first "Day of Mathematics". Many interested guests accepted the invitation to the Central Lecture Hall Building, where descriptive lectures, interactive exhibitions and other math-related activities provided a variety of encounters with mathematics. In addition, 64 8th to 12th class students from 13 schools in the Chemnitz region took part in a mathematics competition. Representatives from the field of teacher training were also not to be left out – a keynote lecture on mathematical experiments was given by Prof. Dr. Albrecht Beutelspacher from the Mathematikum in Gießen. In the future, "Day of Mathematics" will be offered annually in this relaxed university atmosphere.

Faculty of Mechanical Engineering

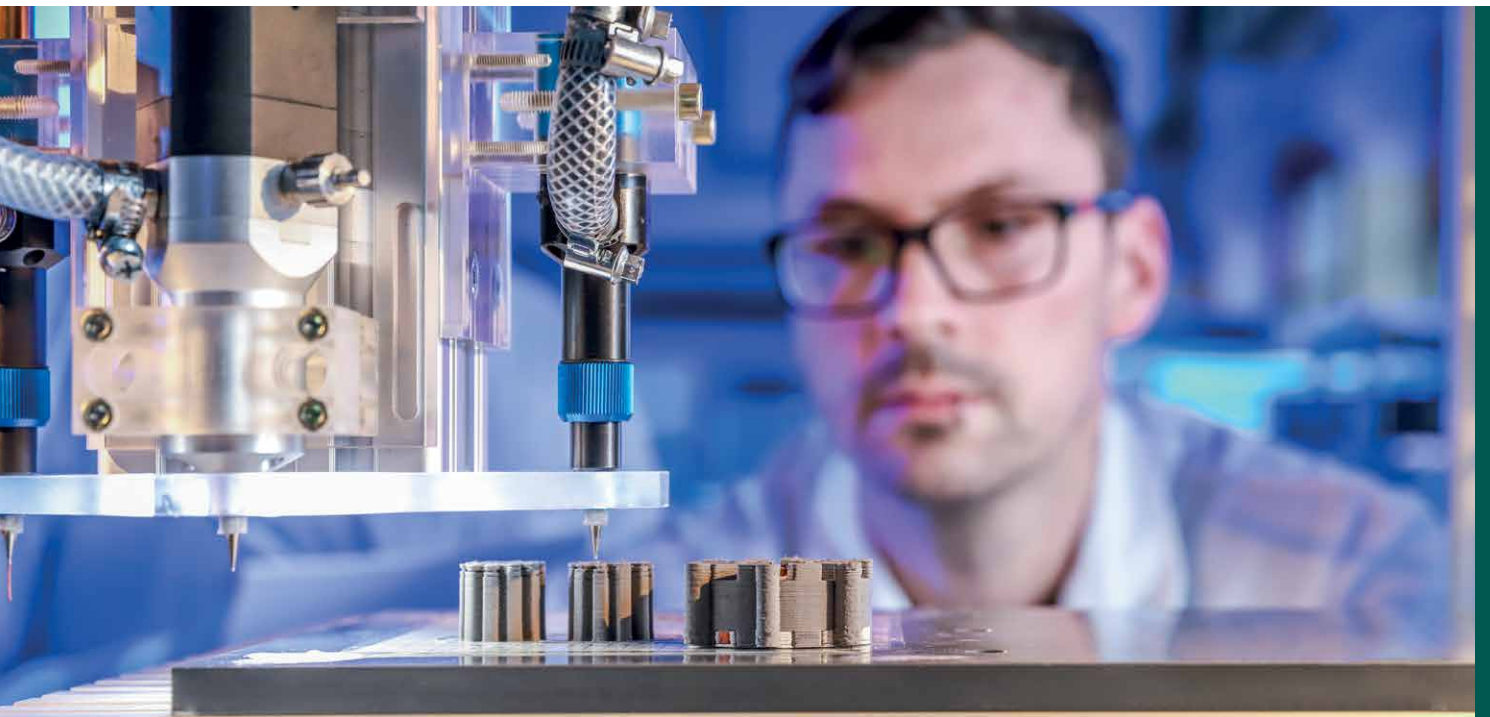
The HZwo Network, initiated by the Professorship of Alternative Drivetrains and in consortium with the energy technology network Netzwerk Energy Saxony, came out ahead in the competition for funding. Via Innovationscluster Sachsen, which is sponsored by the Saxony State Ministry for Economics, Labor and Transport, HZwo is now being funded to the tune of 1.6 million euros. The goal of the innovation cluster “HZwo – Antrieb für Sachsen” is to bundle all existing partners and activities in Saxony under one roof, and establish and build a network for fuel cell-powered electric vehicles and other methods of transport that utilize hydrogen. Saxony’s position as a leading market for fuel cell vehicles and hydrogen technology is thus sustainably ensured. A highlight from the past year was the HZwo Technology Forum that was held on November 29th.



The innovation cluster HZwo on the web: www.hzwo.eu

Faculty of Electrical Engineering and Information Technology

With the help of specially modified metallic and ceramic pastes, Prof. Dr. Ralf Werner, Chair of the Professorship of Electrical Energy Conversion Systems and Drives, along with his co-workers Johannes Rudolph and Fabian Lorenz, was able to 3D-print complete electric motors. For the first time, this first-of-its-kind innovation was presented at the Hannover Messe in April 2018. Numerous interested parties from science and industry came to Chemnitz in the aftermath to get a first-hand look at the 3D multi-material printing process in the laboratories of the professorship. An industry research project began in the fall of 2018. The Chemnitz researchers now aim to develop and bring the process to market.



From Our Central Institutions



University Computer Centre

With more than 200 services offered, the University Computer Centre (URZ) supports study, research and teaching at Chemnitz University of Technology. One of these services is the TUC-Card, an internally developed card whose use is shared with Studentenwerk Chemnitz-Zwickau. It allows students and staff to show their identity, borrow books, pay at the campus cafeterias, use the university's public printers, and access selected rooms on campus. The TUC-Card project was successfully completed in 2018, after door controller systems were replaced and updated according to current security requirements.



International Office

In November 2018, more than 200 students attended the "Information Fair for Stays Abroad", which took place on the Reichenhainer Straße campus. At this new event, organized by the International Office (IUZ), students learned about semesters abroad, internships abroad, funding programs and partner universities. Due to the positive response, it is planned that the fair will take place on an annual basis.

Foreign Language Centre

The Foreign Language Centre offers roughly 150 language training courses each semester to around 2,500 students. This includes courses in English, German as a foreign language, Spanish, Italian, French, Russian, Czech, Polish, Latin, Chinese and Arabic. All courses are modularized and are based on the Common European Framework of Reference for Languages (CEFR). During semester breaks, intensive language courses and language and cultural studies courses for ERASMUS students take place. As in the previous year, the Foreign Language Centre also conducted a language course for recognized refugees with a higher education entrance qualification in 2018, funded by the Saxon State Ministry of Science and the Arts.

Saxony's Centre for Teaching and Learning

In 2018, the joint university venture "LiT. Specialists: Advising" was founded by two projects from the Quality Pact Teaching initiative – TU4U and Teaching Practice in Transfer plus (LiT+). This venture is coordinated by the Saxony Center for Teaching and Learning (HDS). Here, teachers and advisers take on the question of how students can be better supported by counseling and other services related to teaching. In addition to the continuing education courses offered by HDS and LiT+, workshops tailored to specific institutes were offered in 2018, on topics such as improved teaching in mechanical engineering, coping with plagiarism and innovative multimedia teaching. In 2018, a total of 218 teachers took advantage of this continuing education training offered at Chemnitz University of Technology. The conferring by the HDS of Saxonian University Didactic Certificates to six Chemnitz University of Technology teachers was among the highlights of 2018.



Centre for Young Scientists

Together with the InProTUC project that focuses on the internationalization of doctoral programs at Chemnitz University of Technology, the Centre for Young Scientists offers a wide range of continuing education courses each semester. In 2018, a total of 33 workshops with more than 370 participants took place. In addition, more than 100 people took the opportunity to meet and network via two networking events and the annual "Day of Young Scientists" in November.



Thanks to their victory, the LiGenium team, represented by Christoph Alt (2nd from left), Angela Grimmer and Dr. Sven Eichhorn, can watch the "budding plant of their company" grow. Prof. Dr. Uwe Götze (left), Vice President for Transfer and Academic Qualification at Chemnitz University of Technology, and Uwe Heimstädt (right), Department Head for Investment at the Sächsische Aufbaubank, the development bank of the Free State of Saxony, were on site to congratulate the team.

Centre for Knowledge and Technology Transfer

To increase the promotion of innovative start-ups in the university's core competencies, the Sächsische Aufbaubank, as the development bank of the Free State of Saxony and Chemnitz University of Technology, initiated the establishment of the TUclub in 2018, so as to better serve (potential) entrepreneurs and founders during and after establishment (from six months prior to founding until the first anniversary of founding). As part of an annual competition, two selected start-up companies can receive start-up financing in the form of investment capital from the Sächsische Beteiligungsgesellschaft mbH of up to 450,000 euros. In addition, start-ups also gain access to the infrastructure of the university and selected transfer partners, as well as access to transfer and mentor networks at the university. The winner of the first competition was the LiGenium team (pictured), with their business idea involving the use of wood in conveyor systems. Above all, the company wants to achieve a reduction in weight and thus higher profitability and efficiency in the automotive industry and other related economic sectors.

Centre for Sports and Health Promotion

In 2018, Chemnitz University of Technology entered a cooperative agreement with Techniker Krankenkasse (TK) for the implementation of health management at the university. The Centre for Sports and Health Promotion (ZfSG) laid the foundation for future health-conducive university policies, and prepared an evaluation in order to better assess the needs of university employees. In addition, the Centre has continued its diverse offerings in the area of health promotion, and about 120 sports courses per semester. The university also participates in the “Bewegt studieren, Studieren bewegt!” initiative of the German University Sports Federation and TK. One form of this initiative is the “moving break” (pictured), which aims to invigorate and replenish concentration during lectures, seminars and labs.



Centre for Teacher Training

With the training of teachers at primary schools, Chemnitz University of Technology makes an important contribution to teaching in Chemnitz and in the greater region. The importance of teacher training here in Chemnitz is apparent, as shown by the decision of the Saxon State Parliament to renew the teacher training agreement at the university. In 2018, 79 education students completed their studies. The certificates were presented by Saxony's State Minister of Culture, Christian Piwarz (pictured). A unique feature of this teacher training is the additional qualification of German as a second language (DaZ), which is offered in cooperation with the Professorship of German as a Foreign and Second Language. Another unique feature of the program is the joint offering “Economic, technical and home economics education”, which only exists in this form at Chemnitz University of Technology.





Minister-President Michael Kretschmer (2nd from left) and Chemnitz Mayor Barbara Ludwig, Dr. Volker Reichert, CEO of the A&E Produktionstechnik GmbH Company during a tour through the MERGE research facilities given by MERGE coordinator Prof. Dr. Lothar Kroll (left) and Chemnitz University of Technology President Prof. Dr. Gerd Strohmeier (right). The guests were briefed on the internationalization strategy of the Cluster of Excellence and cooperative projects between Chemnitz University of Technology and universities and firms in Poland.

Cluster of Excellence MERGE

At the heart of our research at the Cluster of Excellence MERGE is the production of innovative lightweight structures with a focus on environmental and economic sustainability. In 2018, three joint projects were launched as part of the Cluster's "MERGEurope" internationalization strategy. These projects, coordinated in Chemnitz, bring together over 500 partners in science and industry from Poland, the Czech Republic, Spain, Italy, Germany and the Netherlands. More than 200 German and Polish scientists as well as representatives from business, industry and political sectors of both countries met in 2018 for the 2nd Polish-German Bridge Conference. The conference was opened in Chemnitz by Michael Kretschmer, Minister-President of the Free State of Saxony.



University Library

The University Library (UB) successfully implemented the Saxon-Czech joint project "Learning Space – Library Information Platform", supported in cooperation with the "Joint Program for the Advancement of Cross-Border Cooperation Between the Free State of Saxony and the Czech Republic 2014-2020", with funding from the European Regional Development Fund (ERDF). Together with the University Library of Zittau/Görlitz, the UB at the West Bohemian University of Pilsen, the Scientific Library in Liberec and the UB at Liberec, the first German-Czech consortium for the cross-border use of electronic books was created. More than 6,000 e-books by the publishing company Taylor and Francis were available for access, and a large share will be permanently transferred to the UB inventory.

Awards and Grants

Chemnitz University of Technology celebrates and recognizes the outstanding achievements of our researchers and teachers in various fields. On November 8th, 2018, the university handed out a first: a teaching award to one of its study programs – which included a 5,000 euro endowment. Four individual teaching awards, a research award and a transfer award were given as well, with 1,000 euro endowments, respectively. In addition, Chemnitz University of Technology awarded a total of 93 Deutschlandstipendien (scholarships), and the German Academic Exchange Service (DAAD) Award for outstanding achievement by foreign students and doctoral candidates at German universities. Nine University Awards, each worth 1,000 euros, were awarded by the Gesellschaft der Freunde der TU Chemnitz e.V. (Association of Friends of Chemnitz University of Technology). These recognized the best theses within all of the faculties and the Centre for Teacher Training.

The **University Awards** were given to Dr. Martin Dehnert for his dissertation at the Faculty of Natural Sciences, Dr. Franziska Nestler for her dissertation at the Faculty of Mathematics, Dr. Thomas Uhlig for his dissertation at the Faculty of Mechanical Engineering, Christian Bäumler for his master's thesis at the Faculty of Electrical Engineering and Information Technology, Dr. Stefanie Müller for her dissertation at the Faculty of Computer Science, Sarah Hönigsberg for her master's thesis at the Faculty of Economics and Business Administration, Dr. Jan Vondráček for his dissertation at the Faculty of Humanities, Dr. Chadi Abdul-Rida for his dissertation at the Faculty of Behavioural and Social Sciences, as well as Andreas Lieblich and Martin Roßberg for their joint state examination work at the Centre for Teacher Training. The **DAAD Award**, which is also endowed with 1,000 euros, went to Xiaowen Yu, who is studying towards a Bachelor of Science in Economics and Business Administration at Chemnitz University of Technology.

The Bachelors program in Sensors and Cognitive Psychology at the Faculty of Natural Sciences was the study program that received the endowed **Teaching Award in 2018**. This program is a prime example of Chemnitz University of Technology's focus on the concept of "Man and Technology" and interdisciplinary collaboration.

The **Award for Innovative Teaching**, funded by Volksbank Chemnitz, went to Prof. Dr. Ulrich T. Schwarz (Natural Sciences) for his module within the Sensors and Cognitive Psychology master's program, titled Physics and Sensor Technology. In this module, students develop a concrete product idea and experience the entire product chain as illustrated in sensor development (in the picture above right).



15 Representatives from five faculties celebrated four teaching awards, a research award, and a transfer award, with President of Chemnitz University of Technology, Prof. Dr. Gerd Strohmeier (4th from left). In the picture, from the left: Prof. Dr. Ulrich T. Schwarz, Prof. Dr. Alexandra Bendixen, Prof. Dr. Bertolt Meyer, Aline Lohse, Michael Quellmalz, Dr. Franziska Nestler, Prof. Dr. Daniel Potts and Prof. Dr. Birgit Glorius.



Prof. Dr. Daniel Potts, Dr. Ralf Hielscher, Dr. Franziska Nestler and Michael Quellmalz from the Faculty of Mathematics received a Teaching Award for Encouraging Learning via Digital Technologies, sponsored by the firm msg systems ag. This teaching concept supports students' autonomous and continuous flexible learning via the combination of online tools and classroom exercises.

The Teaching Award for Young Scientists, sponsored by wohnen in chemnitz GmbH, was awarded to Aline Lohse from the Faculty of Mechanical Engineering for her project, titled "INNO Design – Engineers and Wood Designers". INNO Design is a cross-university, interdisciplinary offering between Chemnitz and Zwickau for the developing of video tutorials on creative techniques for future wood designers.

The Research Award for the First Successful Project Acquisition with EU Funds, funded by SITEC Industrieanlagen GmbH, went to Prof. Dr. Birgit Glorius (Faculty of Humanities), for her project that was funded by the European Commission, titled "Evaluation of a Common European Asylum System Under Pressure and Recommendations for its Future Development".



The Transfer Award for Science Communication, sponsored by TUCed – Affiliated Institute for Transfer and Continuing Education GmbH, was awarded to Prof. Dr. Bertolt Meyer (Faculty of Behavioural and Social Sciences, pictured). His work, recognized as complex yet able to be understood by the general public, gave results from his research focuses of "Diversity in the Workplace", "Digitalization of Society and the World of Work" and "Occupational Health Management".

About Our Students



The Racing Team Builds Their First Electric Race Cars

Green, lightweight and, for the first time, fully powered by an electric motor – this is the GreenHORNet, so christened by the T.U.C. Racing Team at Chemnitz University of Technology. Students of various disciplines have spent three years developing their new vehicle, and now it is ready for the racetrack and should beat its competition at the Formula Student Germany, an international design competition for students.

Student Film Project Recognized

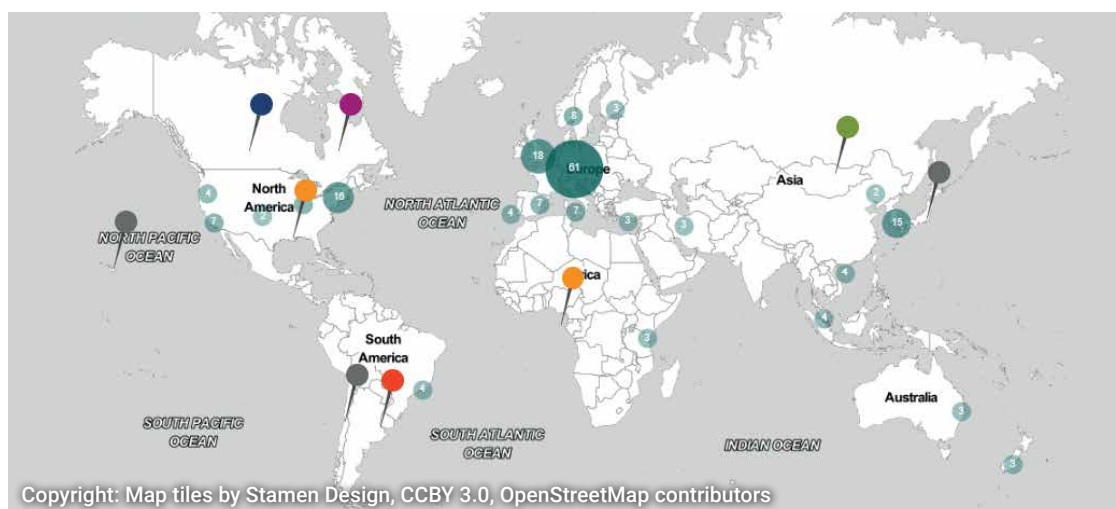
The intercultural film Saleh und Maja received first place in the 7th Citizens Prize of the Chemnitz Community Foundation (Bürgerpreis der Bürgerstiftung für Chemnitz), endowed with 1,000 euros. Students from Chemnitz University of Technology produced and played roles in the short film. It tells the story of two young adults from Germany and Syria who get close to each other and must overcome social and cultural barriers. Originally, the idea came about in a seminar given by Dr. Gala Rebane, Junior Professor of Intercultural Competence at Chemnitz University of Technology, who subsequently developed the theoretical foundations of the project along with six students.



About Our Young Scientists

International Doctorates at Chemnitz University of Technology

The Centre for Young Scientists sees itself as a multidisciplinary coordination and service point at Chemnitz University of Technology. The centre's focus includes supporting candidates during doctoral and post-doc phases, continuing education, counseling and networking. This includes the project "Doing a Doctorate at Chemnitz University of Technology" (InProTUC), which is funded by the German Academic Exchange Service (DAAD), with funding from the Federal Ministry of Education and Research. InProTUC enables doctoral candidates from Chemnitz to conduct research residencies and participate in conferences abroad. It also sponsors guest residencies for international doctoral candidates here at the university. You can find testimonials and experiences of doctoral candidates who have previously been a part of the program via their website, where a world map with over 250 entries is available.



Previous Destinations and Experiences on the web:
mytuc.org/stky

The Day for Young Scientists

Once a year, Chemnitz University of Technology hosts an event dedicated to junior researchers and the specific issues and questions they face. The Day for Young Scientists focuses on topics such as doctoral degrees, habilitation, support and funding for young researchers, and career opportunities after completing graduate and post-graduate programs. Various lectures, group discussions and individual talks offer attendees a comprehensive overview of employment and career paths in academia and beyond. On November 15th, 2018, candidates came together again to share their experiences. One important message was that young scientists should not lose heart in the face of adversity. In addition, current and former candidates spoke about their individual paths to promotion. The event ended with a science slam where researchers highlighted their work.



Event Highlights

Open House Day



Roughly 3,000 prospective students learned about the courses offered at Chemnitz University of Technology on January 11th, 2018, at the Saxony-wide Open House Day.

Campus and Sport Fest and Health Day



In addition to the creative and humorous sporting competitions at the Campus and Sport Fest, this year a "Health Day" was held for the first time. There, one could find information on overall health, body measurements, talks on nutrition, smoothies and exercise offerings.



Video Report:
bit.ly/TUCampus-fest2018

JAN

FEB

MAR

APR

MAY

JUN

TUCtag

TUCtag on May 5th, 2018 was a great success for Chemnitz University of Technology. Around 4,000 guests converged over a 10 hour span for roughly 100 presentations as a part of Open House Day, as well as the Children's University and the Long Night of the Sciences.



TUCtag-Video:
kurzlink.de/Ye-PL4ncwo



Graduation Celebration I

500 graduates, including recipients of doctoral and post-doctoral degrees, received their graduation certificates on June 2nd and November 3rd, 2018 in a memorable atmosphere at the St. Petri Church in Chemnitz.



2018

Welcome Celebration



Video-Bericht:
bit.ly/TUCimma_2018



2,785 new students opted for one of the 104 courses offered by Chemnitz University of Technology in Wintersemester 2018/2019. Many first semester students, along with their parents and friends, accepted the invitation from university leadership to attend the welcome celebration, which took place on October 4th, 2018 at the Richard Hartmann Arena.

Christmas Market



Members of the university community, graduates, and residents from the area were invited to the TU Christmas Market on December 6th, 2018, which took place on the forecourt and the foyer of the "Orangerie" Lecture Hall at Reichenhainer Straße 90.

JUL AUG SEP OCT NOV DEC

TUCsommernacht



More than 1,000 guests experienced an unforgettable evening on June 2nd in the courtyard of the Böttcher Building, with contributions from the TU Big Band, the Sinjini dance group and "Erzistar" Eivien Kretschmar, as well as a multimedia presentation by professional mountaineer and Chemnitz University of Technology student Jost Kobusch.

Handing out Prizes and Scholarships



Chemnitz University of Technology handed out 9 University Awards on November 8th, as well as an award from the German Academic Exchange Service, 93 Deutschlandstipendium scholarships, and for the first time, four teaching awards, a research award, and a transfer award.

Graduation Celebration II



Facts and Figures



10,931 Students
were enrolled in winter semester
2018/2019, including 4,765 women.



2,057 Graduates
completed their studies in the
2018 academic year.



5 136 doctoral and habilitation degrees were
granted in 2018.



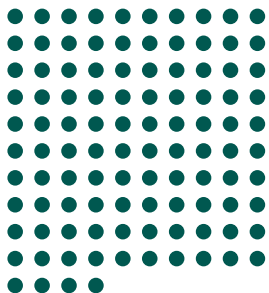
2,316
people are employed at Chemnitz University of Technology, and roughly half are financed by a third party.



28.6% of all students
at Chemnitz University of Technology
are **international**, and come from
92 countries.



1 Cluster of Excellence and 3 DFG Collaborative Research Centers
were among Chemnitz University of
Technology's major research
projects in 2018.



104 degree programs
were offered in winter semester 2018/2019 by the university's
8 faculties and the Centre for Teacher Training:
39 bachelor's and 61 master's programs, 2 diploma programs
and 2 courses at the Centre for Teacher Training.



There are **162 Professorships**
at Chemnitz University of Technology,
and an additional 18 Junior Professorships.



93 Deutschlandstipendium
scholarships were granted in 2018.



3 Chemnitz University of Technology has identified **core competency fields** which address issues of tomorrow: **Materials and Smart Systems, Resource-Efficient Production and Lightweight Structures,** and **Humans and Technology.**



18 **businesses** were founded with the support of the SAXEED start-up network in 2018. Beyond that, 25 additional start-up projects received assistance and guidance.



1,450 **projects** were financed via third-party funding in 2018.



Chemnitz University of Technology received **98.1 million euros** in government grants in 2018.



13 **distance learning and continuing education programs** for working professionals are offered at Chemnitz University of Technology and the TUCed Affiliated Institute for Transfer and Continuing Education, including two new master's degree programs in "Management" and "Special Needs and Inclusive Education - Promoting Learning and Development from a Resource-oriented Perspective within the Inclusive Education System".



Chemnitz University of Technology researchers received **71.4 million euros in third-party funding** in 2018. In comparison, in 2008 they raised 35.5 million euros.



1,964 **publications** were released by university members in 2018, and can be accessed via the University Bibliography.



1.1 million printed books and journals, 150,000 digital media and 15.8 million patent documents are available from the University Library. 12,500 users take advantage of the library's extensive catalog.

Participation and Inclusion

Children's University

In 2018, the Chemnitz Children's University kicked off the "RAW Festival" with a special presentation on gesture research. In addition, boys and girls between the ages of 7 and 12 learned about such topics as astronomical secrets, whether people from the Stone Age were tattooed, who lives in the forest, and why friendships are so important.



Seniors College

The Seniors College is an opportunity for lifelong learning offered to seniors from Chemnitz and the surrounding region. Each semester, lectures covering a wide range of diverse subjects are held on a weekly basis. Members can also take advantage of additional courses in subjects such as computer literacy, foreign languages, multimedia (photography, image or video editing, etc.), art or culture. In 2018, the Seniors College presented altogether 30 lectures.



Video clip on studying with limited mobility at Chemnitz University of Technology:
bit.ly/TUC-Inklusion



Actively Promoting Inclusion

In 2018, Chemnitz University of Technology received around 188,000 euros in funding from the Saxon State Ministry for Higher Education, Research and the Arts to be applied towards inclusion on campus. Major projects in this area include improvements to infrastructure that allow for greater access, the incremental implementation of a barrier-free guide and orientation system, the creation of communication channels and training courses, the creation of informative materials and special purchases for employees with disabilities.

Construction Projects

A New Luster to Old Walls

The renovation of the facade of the university's Böttcher Building was successfully completed in late summer 2018. This project was coordinated by the state enterprise Sächsisches Immobilien- und Baumanagement and the university's Department of Construction and Technology. Alongside the crown that stands on the building, the natural stone façade with its richly decorated figures and ornaments shines again in splendor, including three pairs of figures above the main entrance. These refer to the sciences that were taught here in the 19th Century – mathematics, physics, textile and chemical engineering, mechanical engineering and construction engineering.



Video clip on the handing over of the MAIN research center:
bit.ly/uebergabe_MAIN

The Handing Over of MAIN

The Center for Materials, Architecture and Integration of Nanomembranes was officially transferred to Chemnitz University of Technology on August 13th, 2018 by the Saxon State Ministry of Finance and the Saxon State Ministry for Higher Education, Research and the Arts. Since then, the laboratory has given roughly 100 scientists state-of-the-art working and research conditions.

Aktienspinnerei: Conversion to the Central Library

The Alte Aktienspinnerei (spinning mill) is in the process of being converted to Chemnitz University of Technology's new central library. In 2018, the outer façade was completed and gradually unveiled. The first impressions of this highly visible change give a good idea of how the library will fit into the nearby urban landscape. Even if the exterior of the building is based on the original design, everything inside the building will be quite modern. As such, this project represents a symbiosis between the character of the 19th Century factory building and modern library technology. The building is expected to be handed over to the university at the end of 2019.



University Communications

Chemnitz University of Technology has a wide reach and uses various channels to communicate with different target groups, about different topics and different areas. The university also responds to current events, such as the events of August 26th and their aftermath – the violent death of a 35 year old Chemnitz resident and the subsequent, unjustifiable xenophobic and racist attacks and riots that severely shook the university community as well as challenged it in many ways.



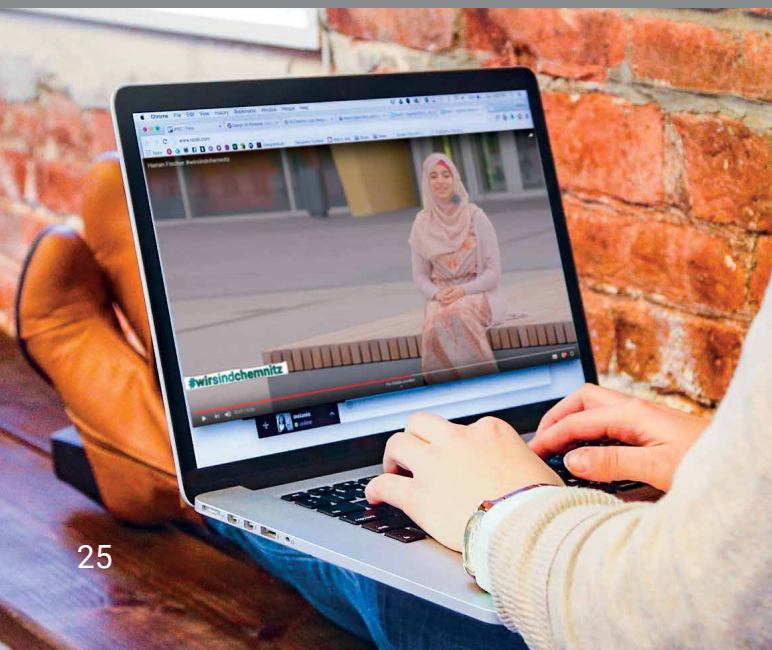
Immediately following the events, University President Prof. Dr. Gerd Strohmeier and Vice President for Teaching and International Affairs, Prof. Dr. Maximilian Eibl, published an open letter that opposed the violent crimes, xenophobia and racism.

Junior-Professor Dr. Frank Asbrock, who conducts research at the university in the field of “Group-Focused Enmity”, undertook an examination of the events and dissected the events for numerous well-known media outlets such as ARD, FAZ and the New York Times.

In November 2018, a symposium on the topic of everyday racism followed. Other additional studies are still ongoing at the university.



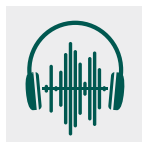
Video-Clip:
#wirsindchemnitz:
www.mytuc.org/wxyz



„Wir sind Chemnitz“

Another initiative was the advertising campaign “#wirsindchemnitz”. The centerpiece of this campaign is a video clip in which national and international students and employees introduce themselves in their respective native languages, and then conclude in German with “Ich bin Chemnitz”. The aim of this campaign is to show Chemnitz in a more international, open-minded and tolerant light. The clip was distributed, among others, via the university social media channels with the hashtag #wirsindchemnitz. Parallel to this, the Uni-Shop offered t-shirts on sale with this slogan printed on them, and a front window on the Weinhold-Bau building was covered with the hashtag (see the photo above). With the “Wir sind Chemnitz” campaign, the university took up the mantle of the overall campaign, initiated by committed Chemnitz citizens, of “Chemnitz is neither gray nor brown”.

New Communication Formats



TUCscicast

In this long-format offering, personalities from the university discuss and report on their research topics in a relaxed atmosphere, in everyday language; it has a sense of humor but is also always quite profound.

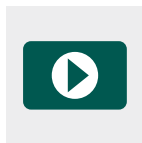
www.mytuc.org/twpm



TUCreport

Chemnitz University of Technology publishes the TUCreport on an annual basis. In this publication, focal points and highlights from the previous year at the university are bundled together and presented.

www.mytuc.org/yjdr



Research Statements

Here, scientists from Chemnitz University of Technology run down the latest results of their research via video.

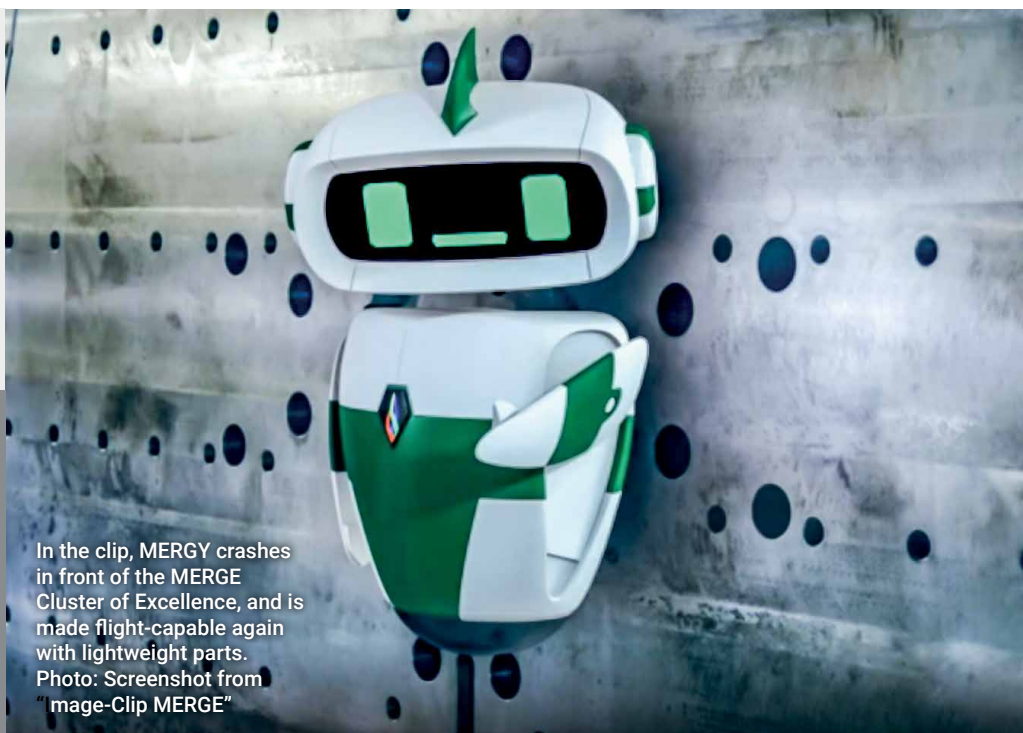
www.bit.ly/TUC_Forscher_Statement

Get Started with MERGY

The lightweight robot MERGY, as a part of a promotional clip, illustrates the range of services offered by the Chemnitz MERGE Cluster of Excellence.



Image-Clip of MERGY:
www.mytuc.org/nhtp



In the clip, MERGY crashes in front of the MERGE Cluster of Excellence, and is made flight-capable again with lightweight parts.
Photo: Screenshot from "Image-Clip MERGE"

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