

Project Overview (Selection)

		Project management	Expert group	Start	End	Funding	Project executing agency
1000KM+	Scalable European Powertrain Technology Platform for Cost-Efficient Electric Vehicles to Connect Europe	Prof. Dr.-Ing. Niels Modler	Function Integration	01/2019	06/2023	EU	
ADHYBAU (ex. BASELA)	Development of additive processes and fiber composite-metal hybrid designs for the Use in cryogenic environments (AdHyBau) SP: Novel designs for structures in electric drives with cryogenic cooling	Prof. Dr.-Ing. habil. Maik Gude	Joining Technologies	05/2020	12/2023	BMWK	DLR
AI4CSM	Artificial Intelligence for/at Connected Shared Mobility	Prof. Dr.-Ing. Niels Modler	Function Integration	07/2021	11/2024	EU/BMBF/SAB	VDI/VDE
AM-SERT	Anforderungsgerechte Gestaltung von Fügezonen mit Inserts in additiv gefertigten Bauteilen	Prof. Dr.-Ing. Niels Modler	Joining Technologies	03/2023	02/2025	AiF	Association for the Promotion of the Plastics Centre e.V.
ARCHITECT	Trustable architectures with acceptable residual risk for the electric, connected and automated cars	Prof. Dr.-Ing. Niels Modler	Function Integration	07/2020	12/2023	EU/BMBF	VDI/VDE
BIAX	Description of the fatigue behavior of fabric-reinforced fiber-plastic composites under combined interlaminar shear and out-of-plane compressive stress	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	03/2021	12/2024	DFG	
BRYSON	Space-efficient hydrogen storage with optimised usability SP: Process development for the manufacturing of thermoplastic warp tank systems	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	12/2019	12/2023	BMWK	PTJ
CHANGE!	Change! From resource efficiency towards neutrality	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	10/2019	12/2024	SMWK	
CIRCECON	Survey concept for the Trilateral Research Centre for circular and organic economy of the Saxon Technical Universities Chemnitz, Dresden and Freiberg in Lusatia ODER Green Circular Economy	Prof. Dr.-Ing. Niels Modler		07/2023	07/2021	SAB	
COME2DATA	Competence Center for Interdisciplinary Data Sciences - Come2Data	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	11/2023	11/2026	BMBF	VDI/VDE
COMFYTPU	Development of electrically heatable TPU-based components from continuously producible sheets	Prof. Dr.-Ing. habil. Maik Gude	Thermoset Processing and Preforming	01/2022	03/2024	AiF	FILK
COMP-ECO	Strengthening Mazovian Multifunktional Composite Ecosystem through a holistic Approach and a strategic Alliance with European Leaders	Prof. Dr.-Ing. habil. Maik Gude	Function Integration	01/2023	12/2025	EU	
COMPOLL	Combating environmental pollution through internationalisation of education in Germany and India	Prof. Dr.-Ing. habil. Maik Gude	International	07/2020	12/2024	DAAD	
DDTRUST	Implementierung eines Datentreuhandmodells für den sächsischen Wissenschaftsraum an der TU Dresden	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	01/2022	12/2024	BMBF	VDI/VDE
DIDE4REC	Digitaler Design 4 Recycling Prozess für faserverstärkte Leichtbaustrukturen TP: Prozess- und Werkstoffanalyse in Prozesskette B: Spritzgießen	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	11/2022	10/2025	BMWK	PTJ
DIGITAIN	Digitalization for Sustainability TP: Nachhaltigkeitsorientierter Entwicklungsprozess für Leichtbaustrukturen von elektrischen Antriebssystemen	Prof. Dr.-Ing. Niels Modler	Function Integration	01/2023	12/2025	BMWK	TÜV Rheinland Consulting GmbH

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DIWA	Consistent analysis and evaluation of manufacturing-related fibre misorientations in thick-walled fibra-plastic composites TP: Analyse des Einflusses fertigungsbedingter Faserfehlorientierungen auf das Werkstoffverhalten von dickwandigen Faser-Kunststoff-Verbunden	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	04/2020	08/2023	DFG	
EACPLUS	Sustainable Electric Architecture Casings	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	12/2021	11/2024	BMWK	PTJ
EDI:TUD	Successful – Digital – Integrated: Studying at TU Dresden	Prof. Dr.-Ing. Niels Modler	International	01/2021	12/2023	DAAD	
ELAN-FELL	Elektrische Leistungseinheiten für hybrid-elektrische Antriebssysteme TP: Funktionsorientierter Einsatz von Leichtbautechnologien für hochintegrative elektrische Leistungseinheiten	Prof. Dr.-Ing. Niels Modler	Lightweight Design	01/2022	12/2024	BMWK	DLR
ELVIS	Entwicklung und Erprobung ultraleichter Verbundstrukturen mit integrierter elektrischer Speicherfunktion TP: Bauweisenentwicklung, Herstellung und experimentelle Charakterisierung	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Processes	05/2022	04/2025	BMWK	DLR
EURECOMP	European recycling and circularity in large composite components	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	04/2022	03/2026	EU	
FANTASTIC	Determination of fatigue strength and analysis of fracture mechanisms of TMC	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Processes	01/0223	12/2024	DAAD	
FATIIGUE	Experimental analysis and numerical modelling of microcrack induced delaminations under cyclic loading with load reversals	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	09/2021	08/2023	DFG	
FAVILEIT	Development of a test stand for the simultaneous characterization of fibers and yarns, regarding their electrical and mechanical properties TP: Entwicklung einer Referenzmessmethode zur simultanen Charakterisierung von Fasern und Garnen hinsichtlich ihrer elektrischen und mechanischen Eigenschaften	Prof. Dr.-Ing. Niels Modler	Function Integration	04/2021	06/2023	AiF	AiF
FLIER	Flexible wall structures for acoustic LInERs	Prof. Dr.-Ing. Niels Modler	Function Integration	06/2020	03/2024	BMWK	DLR
FORCEAT	Entwicklung eines Systems zur Messung von Kräften und Kraftverteilungen an einem Wurfstuhl für den paralympischen Wurf und Stoß	Prof. Dr.-Ing. Niels Modler	Function Integration	08/2022	04/2023	BMI	BiSp
GABRIELA	Ganzheitliche Bearbeitung von Kunststoffrecyclingpfaden für ressourceneffiziente und kreislauffähige Leichtbau-Batteriegehäuse TP: Alterung und Eigenschaftsanalyse	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	07/2022	06/2025	BMWK	PTJ
GRETA	Generative production of recyclable basic structures for theatre sculpture from natural-based materials	Prof. Dr.-Ing. Niels Modler	Novel Materials and Special Processes	09/2021	12/2024	SAB	
GRK 2868	D3 – Data-driven design of resilient metamaterials TP: F2 Graded functionalization for resilient metamaterials	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	10/2023	09/2028	DFG	
GRK2430	GRADUIERTENKOLLEG 2430 Interaktive Faser-Elastomer-Verbunde	Prof. Dr.-Ing. Niels Modler	Calculation Methods and Simulation	11/2018	04/027	DFG	
H2GA	Hydrogen fuel cell technology as a hybrid-electric drive in the demonstrator Antares E2	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	12/2021	11/2024	BMVI	PTJ
HEFGRAV	Health in Space - The effect of space on human physiology	Dr. Maria Lißner		01/2023	12/2024	TUD / SG 8.3 Internationalisierung	

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HISTRATE	Advanced Composites under High STRAin raTEs loading: a route to certification-by-analysis	Dr.-Ing. Andres Hornig	Calculation Methods and Simulation	11/2022	10/2026	EU	
HORA	High-performance radial impellers in modular metal-fibre composite design	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	12/2021	05/2024	AiF	FK Maschinenbau
HYBLEX	Entwicklung von hochtemperaturbeständigen Faser-Kunststoff-Verbundwerkstoffen zur kosteneffizienten Fertigung von hybriden Faserverbund-Metall-Bauweisen für zukünftige Leichtbau-Antriebskomponenten in extremen Umgebungsbedingungen TP: Verarbeitungs- und Verbindungstechnologien für Leichtbau-Antriebskomponenten in extremen Umgebungsbedingungen	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	01/2023	12/2025	BMWK	DLR
HYBSCH	Design development and technology synthesis for the production of cellular hybrid plastic structures for application in acoustic resonators	Prof. Dr.-Ing. Niels Modler	Function Integration	04/2020	09/2023	DFG	
HYDRUN	Boundary layer analysis for the inline hybridization of metal die casting and plastic injection molding	Prof. Dr.-Ing. habil. Maik Gude (Prof. Dr. rer. nat. Hubert Jäger)	Novel Materials and Special Processes	06/2021	09/2024	BMBF	PTJ
HYPRO	Holistic implementation of hybrid design in series production	Prof. Dr.-Ing. habil. Maik Gude	Joining Technologies	05/2020	07/2023	BMBF	PTJ
HYSTERESIS	Cyclic-dynamic properties of particle foams	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	12/2020	03/2024	DFG	
HYTANK	Simulations- und testbasierte Nachweisführung von Kryoklebsverbindungen und Entwicklung von Füge- und Montage-Prozessen zur Herstellung eines CFK-LH2-Tanks für das emissionsfreie Fliegen TP: Test- und simulationsbasierte Analyse von Klebverbindungen für kryogene Anwendungen und Nachhaltigkeitsbetrachtungen zum Fügeprozess eines CFK-LH2-Tanks für die kommerzielle Luftfahrt	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	04/2023	06/2026	BMWK	DLR
I³-SPINE	Development of individualized function integrated spinal implants	Prof. Dr.-Ing. Niels Modler	Function Integration	01/2022	06/2024	TU Dresden - Else Kröner-Fresenius Center for Digital Health	
ICLIMABUILT	Functional and advanced insulating and energy harvesting/storage materials across climate adaptive building envelopes	Prof. Dr. rer. nat. Hubert Jäger	Testing Methods and Material Models	03/2021	02/2025	EU	
I-DETEKT	Intelligent battery protection system for electric vehicles for detection of undesired mechanical damage SP: Development e-Preform	Prof. Dr.-Ing. Niels Modler	Function Integration	12/2020	11/2023	BMWK	PTJ
ILK@UMASS	Towards strengthening the collaboration of TU Dresden and the University of Massachusetts Amherst on the topic of intelligent evaluation methods of aging infrastructure	Prof. Dr.-Ing. habil. Maik Gude		07/2022	10/2023	TUD / Graduate Academy	
INPRO	Integral lightweight profile systems made of fibre-thermoplastic composite functionalised in the injection moulding process SP: Concept, design and process-technological description of functionalised fibre-thermoplastic composite hollow profiles	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	08/2020	01/202	BMWK	DLR
JOIFLO	Experimentelle und numerische Analyse des Fließverhaltens von hochviskosen Wärmeleitstoffen im Fertigungsprozess	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	07/2022	06/2024	AiF	VDI

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KOBRA	Compact X-ray tube made of fibre reinforced ceramics for mobile computer tomographs SP: Structural mechanical design and experimental testing of a rotation unit made of fibre composite ceramics for compact X-ray tubes	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	10/2019	12/2023	BMBF	VDI
KODAV	Simulation-supported research of novel textile-based adaptive fiber plastic composite structures with shape memory alloy elements for complex deformation patterns	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	09/2021 (01/2022)	08/2024 (12/2024)	DFG	
KOKO	2nd Dresden International Colloquium on Tailored Carbon Fibres (RCCF II - Konferenz)	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	01/2021	12/2021	TUD/SG 8.3 Internationalisation	
KOKOMAG	Development and evaluation of a corrosion-protected, non-combustible carbon fibre reinforced magnesium material for aeronautical applications	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	08/2020	06/2024	BMWK	DLR
KOPFOR- THESE	Additiv gefertigte, telemedizinisch überwachbare Koporthese mit integrierter Sensorik TP: Sensorik sowie die optische Erfassung der Schädelform	Prof. Dr.-Ing. Niels Modler	Lightweight Design	12/2022	11/2024	AiF	VDI/VDE
KOLIBRI-S	Complex lightweight structures for electronic applications in mobility SP: Simulation methods for the coupled thermo-structure-flow behavior	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	12/2021	11/2024	BMWK	PTJ
KORESIL	Strategies for the resource-efficient and reliable production of lightweight structures SP: Cyber-physical interfaces for mobile injection moulding	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	02/2021	04/2024	BMBF	PTKA-PFT
LAROW (TUR- BOHYTEC	TP: Laufräder und Rotoren für Wasserstoffverdichtung & Probabilistische Auslegung von Turbinen	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	09/2023	08/2026	BMWK	PTJ
LAST-BELL	Lastgerechte Faserverläufe auf gekrümmten Strukturen am Bsp. eines bauraumkonformen und aerodynamischen Typ-V Wasserstoff-Drucktank und einer Triebwerk-Ringstruktur mit Entwicklungsprozessbegleitender Validierungsstrategie TP: Belastungsgerechte Leichtbaustrukturen im Kontext effizienter Luftfahrtsysteme	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	07/2022	06/2025	BMWK	DLR
LE2GRO	Lightweight multi-material carrier for performance enhancement of large-area fertiliser spreaders SP: Development and experimental validation of a design system for functionalised fibre thermoplastic profiles based on a large-area fertiliser spreader	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	01/2021	04/2024	BMWK	PTJ
LEVADI	Fatigue analysis for adhesively bonded joints in large FRP structures with varying adhesive layer thicknesses	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	04/2020	03/2023	AiF	DVS
LH2CRAFT	Safe and Efficient Marine Transportation of Liquid Hydrogen	Prof. Dr.-Ing. habil. Maik Gude	Function Integration	06/2023	05/2027	EU	
LIGNOBRAID	Biobased lightweight hollow profiles with braided wood tapes SP: Lightweight hollow profiles	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	03/2021	02/2027	BMEL	FNR e. V.
LIKE	Lightweight construction technologies in cross-life cycle products of the energy transition SP: Digitally networked design methodology for recyclable lightweight structures	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	01/2021	03/2024	BMWK	PTJ
LITAPROP	Light-weight composite structures with tailored mechanical, electrical and thermal properties	Prof. Dr.-Ing. habil. Maik Gude	Thermoset Processing and Preforming	07/2021	06/2024	SAB	
LRVTWIN	Light Rail Vehicle Twin – A digital light rail twin	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	01/2022	12/2024	BMVI	TÜV Rheinland Consulting / VDI VDE
M2BRIDGE	Sustainable cooperation in teaching and research in light-weight engineering	Prof. Dr.-Ing. habil. Maik Gude	Function Integration	01/2023	12/2025	DAAD	

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MAQINTO	Maschinell trainierter Qualitätssensor, intelligente Prozesssteuerung und ein ML-Framework zur ressourceneffizienten, maßgeschneiderten Kohlenstofffaserherstellung TP: Experimentelle Analyse und Validierung der Prozess-KI	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	05/2022	04/2025	BMBF	DLR
MEGRAV II	Model building for the design of Metal-Graphite Composites under consideration of application-related service conditions	Prof. Dr.-Ing. Niels Modler	Joining Technologies	06/2021	06/2024	AiF	FK Maschinenbau
METEOR	Methods and technologies for validating and optimizing the resource efficiency of process networks in the production of hybrid lightweight structures SP: Set up process network and virtual process chain	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	12/2020	11/2024	BMWK	PTJ
MM4R	Recycling-friendly multi-material design for lightweight structures SP: Resource-saving material, component and process design	Prof. Dr.-Ing. habil. Maik Gude	Neutral Lightweight Engineering	12/2021	11/2024	BMWK	PTJ
MONSTRAIN	Development of a novel spatially resolved carbon fiber-based strain measurement system for real-time structural health monitoring and validation of load assumptions	Prof. Dr.-Ing. Niels Modler	Function Integration	01/2021	06/2024	BMWK	DLR
NEAPEL	Numerische und experimentelle Analyse des Permeations- und Rissverhaltens von Faserkunststoffverbunden mit thermoplastischen Matrixsystem	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	03/2022	02/2025	DFG	
NH₃CRAFT	Safe and efficient storage of ammonia within ships	Prof. Dr.-Ing. habil. Maik Gude	Function Integration	03/2022	05/2025	EU	
PARASLED	Entwicklung und Herstellung eines Para-Eishockey-Schlittens	Prof. Dr.-Ing. Niels Modler	Lightweight Design	01/2023	12/2023	TUD / Diversity Management	
PDOC-LIS		Dr. Maria Lißner	Lightweight Design	01/2022	12/2023	TUD/Graduate Academy	
PEP4.0	Digitally synchronised development architecture for the product development process 4.0	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	07/2018	06/2023	BMWK	DLR
PLRV	Development of a large-scale lightweight transportation box SP ILK: Development and application of test methods for material characterisation	Prof. Dr.-Ing. habil. Maik Gude	Testing Methods and Material Models	08/2020	06/2023	AiF	AiF
PRILLIAND	Development of an additive production technology for manufacturing plastic-based components for maritime applications	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	04/2021	03/2024 VL bis 9/2024 beantrag	BMWK	PTJ
PRINTCAP	Next Generation of 3D Printed Structural Supercapacitors	Prof. Dr.-Ing. Niels Modler	Novel Materials and Special Processes	06/2022	05/2025	SAB	
PRO-KI	KI-Demonstrations- und Transferzentrum Dresden	Prof. Dr.-Ing. Niels Modler	Thermoplastic Processing	10/2022	12/2024	BMBF	
PROMI	Multi-funktionale Hochleistungs-Profilsysteme in intrinsisch hergestellter Faserverbund-Metall-Mischbauweise	Prof. Dr.-Ing. habil. Maik Gude	Thermoset Processing and Preforming	12/2022	11/2024	DFG	
PROPLUG	Development of a structurally integrated plug-in connection system for the electrification of functionalised fibre composite components SP: Integration concepts and technologies and mechanical characterisation	Prof. Dr.-Ing. Niels Modler	Function Integration	12/2020	11/2024	BMBF	VDI/VDE
ROSI	Untersuchung des Schädigungs- und Modalverhaltens von schnelldrehenden geometrisch komplexen Strukturen durch In-situ-Messtechnik	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	12/2020	05/2024	BMBF	VDI/VDE
SAFECRAFT	Safe and Efficient Use of Sustainable Fuels in Maritime Transport Applications	Prof. Dr.-Ing. habil. Maik Gude	Function Integration	12/2023	11/2027	EU	

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SAXONHY	System-integrated H2 pressure tank assemblies for general aviation and feeder aircraft SP: MBSE-based methods for the development, integration and certification of system-integrated H2 pressure tank assemblies	Prof. Dr.-Ing. habil. Maik Gude	Lightweight Design	12/2021	08/2023	SAB	
SPID	5. Sächsisch-Polnischer Innovationstag „Innovative Lösungen für eine nachhaltige Mobilität“	Prof. Dr.-Ing. habil. Maik Gude		06/2023	12/2023	TUD / SG 8.3 Internationalisation	
SPIFA	SpinnennetzFaserverbund: Development of a new lightweight partition wall for aircrafts based on a novel load insert made of thermoset hardpoints as well as fiber composite tapes with spider web structure for weight savings of at least 5 %. SP: Investigation of process parameters of a holistic manufacturing process for aircraft partition walls for the development of a sensor-based production process automation with a response time below 1 sec	Prof. Dr.-Ing. habil. Maik Gude	Thermoset Processing and Preforming	09/2021	02/2024 VL bis 7/2024 beantragt	AiF	AiF
SPP 1897 - II. Phase	Complex-Shaped Lightweight Structures with Adaptive Dynamic Behaviour through Evanescent Morphing	Dr.-Ing. Pawel Kostka	Function Integration	10/2019	12/2023	DFG	
STARTRAUM	Erarbeitung von Syntralisierungsmethoden und Entwicklung einer Aufbauorganisation	Prof. Dr.-Ing. habil. Maik Gude	Novel Materials and Special Processes	04/2023	04/2024	BMBF	PTJ
SUMMER SCHOOL	Summer School "Intelligent Lightweight Systems" (26.-30.09.2022)	Prof. Dr.-Ing. habil. Maik Gude	International	03/2020	12/2023	TUD/School of Engineering Sciences	
SWAT	Strukturintegriertes Wasserstoff-Drucktanksystem TP: Optimierungsmethoden und Fertigungsprozesse für Kleinflugzeugflügel mit strukturintegrierten Wasserstoffdrucktanks	Prof. Dr.-Ing. habil. Maik Gude	Thermoset Processing and Preforming	01/2013	12/2026	BMWK	DLR
TCF2023	Scientific discussion & networking for the establishment of a large-scale research project for the development of lignin-based carbon fibers within 3rd Dresden International Colloquium on Tailored Carbon Fibers 2023		Novel Materials and Special Processes	10/2023	12/2024	TUD / SG 8.3 Internationalisation	
TRAKUBE	Development of a transport-optimized small wastewater treatment plant SP: Development of a location-independent joining system for a transport-optimized tank system in small wastewater treatment plants	Prof. Dr.-Ing. habil. Maik Gude	Joining Technologies	05/2021	07/2023	AiF	AiF
SFB/TRR285-A03	Calculation and evaluation of process-induced material structure phenomena in FRP-metal connections	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	07/2019	06/2023	DFG	
SFB/TRR285-A03 - II. Phase	Calculation and evaluation of process-induced material structure phenomena in FRP-metal connections	Prof. Dr.-Ing. habil. Maik Gude	Calculation Methods and Simulation	07/2023	06/2023	DFG	
SFB/TRR285-C04	Local and integral in situ analysis of process- and operation-related damage effects of joints	Dr.-Ing. Robert Kupfer	Joining Technologies	07/2019	06/2023	DFG	
SFB/TRR285-C04 - II. Phase	Local and integral in situ analysis of process- and operation-related damage effects of joints	Dr.-Ing. Robert Kupfer	Joining Technologies	07/2019	06/2023	DFG	
T-WU@TUD	Prediction of mechanical properties of CFRP: physics-based multiscale modelling, machine learning and uncertainty quantification	Dr.-Ing. Tao Wu		01/2022	12/2023	TUD / SG 8.3 Internationalisation	
WI-IN	Umsetzung einer integrativen Wickel-Spritzgieß Fertigungszelle zur ressourceneffizienten Herstellung hybrider Thermoplast-Hohlstrukturen TP: Technische, wirtschaftliche und ökologische Qualifizierung hybrider Thermoplast-Leichtbaustrukturen	Prof. Dr.-Ing. habil. Maik Gude	Thermoplastic Processing	01/2023	12/2025	BMWK	PTJ
WISCH-COMPOLL	COMPOLL Winter School 2023 on pollution, life-cycle assessment and recycling	Prof. Dr.-Ing. habil. Maik Gude	Internationalisation	08/2023	12/2023	TUD / SG 8.3 Internationalisation	