Department of System Reliability, Adaptronics and Machine Acoustics SAM

# About this organisation **Machine translation** This organisation has been machine-translated based on data provided in German. The Machine Acoustics working group in the SAM department researches methods and procedures to improve the noise quality of machines at both component and system level. - Acoustic design for mastering lightweight construction and acoustics - Acoustic condition monitoring for the lightweight construction of additively manufactured Adaptronik components Maschinenakustik Otto-Berndt-Str. 2 64287 Darmstadt Organisation type Hesse University or higher education Germany institution ☑ www.sam.tu-darmstadt.de Sectors No specific sector **Employees** 10 up to 49 Turnover n/a Funding

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About this organisation			
Main areas covered	Acoustics, structure-borne sound, reliability, Adaptronics		
Infrastructure	Anechoic chamber, Low-reflection half-space, Reverberation chamber, 3D laser vibrometry		
Certifications			
Keywords			
Memberships			

# Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German. Research Development & Supply Offer Products

 $\checkmark$ 

 $\checkmark$ 

Services & consulting Training, Technology transfer

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Overview of lightweighting expertise					
Machine translation					
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	Research	N Development	Aanufacturing & Supply		
Field of technology					
Design & layout					
Functional integration					
Measuring and testing technology Component and part analysis	$\checkmark$	$\checkmark$			
<b>Modelling and simulation</b> Multiphysics simulation, Reliability validation, Others (Acoustics, structural dynamics)	$\checkmark$	~			
Plant construction & automation					
Recycling technologies					
Manufacturing process					
<b>Additive manufacturing</b> 3D printing, Selective laser sintering (SLS)	$\checkmark$	$\checkmark$			
Coating (surface engineering)					
Fibre composite technology					
Forming					
Joining					
Material property alteration					
Primary forming					
Processing and separating					
Textile technology					

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Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German.				
Material				
Biogenic materials				
Cellular materials (foam materials)				
Composites				
Fibres				
Functional materials				
<b>Metals</b> Aluminium, Steel	$\checkmark$	$\checkmark$		
Plastics				
Structural ceramics				
(Technical) textiles				

### Contacts

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Contacts					
Mr Prof. DrIng. Tobias Melz Head of department	Mr DrIng. Christian Adams Academic Councillor, Deputy Head of Department				
info@sam.tu-darmstadt.de	christian.adams@sam.tu-darmstadt.de				