



## Bio-inspired Innovation - Biomimetics

**Biomimetics - an interdisciplinary approach, that combines biology and technology.**

The goal of Biomimetics is to solve technical problems by using the knowledge of biological systems. Through understanding of the basic principles of natural systems, their abstraction, transfer and application in technology, Biomimetics may lead to optimization of products and to innovation. Furthermore, biological principles can be used to face organizational challenges, like higher complexity.

„**Learning from Nature**“ sounds easy and attractive, the process is complex, though. In order to make Biomimetics a well established method in product engineering, we work in different research topics and projects for an efficient knowledge transfer, for a suitable methodology of application and for a responsible innovation management.

**We would like to collaborate within projects along the value chain to foster innovation – inspired by Nature.**

Universities	Industry	Society/Nature
R&D	Innovation in SME	Innovative and reflective societies
Transdisciplinary education	Sustainable and responsible innovation	Protection of Biodiversity
New approaches in education		

Deggendorf Institute of Technology  
Technische Hochschule Deggendorf  
Technologie Campus Freyung

Deggendorf/Freyung, Germany

**Research areas:**

- **Biomimetics**
- **Methodology of Biomimetics and Bio-inspired design**
- **Functional surfaces of polymers**

**Partnerships:**

**TU Munich, Upper Austria University of Applied Sciences, Campus02  
University of Applied Sciences Graz**



**Contact Details**



Kristina Wanieck  
Research group: Biomimetics & Innovation

Phone: +49 8551 91764 -51  
Email: kristina.wanieck@th-deg.de

[www.tc-freyung.th-deg.de](http://www.tc-freyung.th-deg.de)