

# DIN ISO 18458:2016-08 (E)

## Biomimetics - Terminology, concepts and methodology (ISO 18458:2015)

<b>Contents</b>	<b>Page</b>
<b>National foreword</b> .....	<b>3</b>
<b>National Annex NA (informative) Bibliography</b> .....	<b>4</b>
<b>Foreword</b> .....	<b>5</b>
<b>Introduction</b> .....	<b>6</b>
<b>1 Scope</b> .....	<b>7</b>
<b>2 Terms and definitions</b> .....	<b>7</b>
<b>3 What is biomimetics?</b> .....	<b>9</b>
3.1 Essentials of biomimetics.....	9
3.2 Boundaries to and areas of overlap with related sciences.....	10
3.3 Biomimetic products and processes.....	11
<b>4 Reasons and occasions for using biomimetic methods</b> .....	<b>12</b>
4.1 Possibilities, performance, and success factors for biomimetics.....	12
4.2 Biomimetics and sustainability.....	13
4.3 Limits of biomimetics.....	14
4.4 Communication process in biomimetics.....	14
<b>5 Biomimetic engineering process</b> .....	<b>14</b>
5.1 General.....	14
5.2 Development of new ideas.....	15
5.3 Abstraction and analogy.....	18
5.4 Planning phase to invention.....	19
<b>6 Implementation of biomimetics in the innovation approach</b> .....	<b>20</b>
<b>Annex A (informative) Examples</b> .....	<b>21</b>
<b>Bibliography</b> .....	<b>29</b>