



Curriculum Vitae

Family Name: Dr.-Ing. HERBST
First Name: Heinrich
Date of Birth: 1964
Civil Status: married
Nationality: German

Education:

<i>Institution</i>	RWTH Aachen University, Germany
<i>Date: from (month / year) to (month / year)</i>	06/2003 06/2008
<i>Degree(s) or Diploma(s) obtained</i>	Doctor of Engineering - Topic of the PhD-thesis: "Assessment of centralized and decentralized wastewater treatment systems"

<i>Institution</i>	RWTH Aachen University, Germany
<i>Date: from (month / year) to (month / year)</i>	1983 1990
<i>Degree(s) or Diploma(s) obtained</i>	Graduate Engineer (Dipl.-Ing.) Graduated in Civil Engineering Specialised in sanitary environmental engineering

Language Skills (1 – 5; 5 being highest):

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
German	5	5	5
English	4	4	4

Membership of Professional Bodies:

- DWA - German Association for Water, Wastewater and Waste
- Member of the DWA expert committee "new sanitary systems"
- Spokesman of the DWA working group KA-1.2 "grey water"
- Member of the Chamber of Engineers of North Rhine-Westphalia

Other Training: Health and safety coordinator according to the German Construction Site Regulations of 1998

Present Position: Head of Department Water Cologne

Years within the Firm: 9

Key Qualifications

- Management of the Green Technology Cluster of the German State North Rhine-Westphalia (Cluster Umwelttechnologien.NRW) since 2009
- Management of the Competence Centre Micropollutants of the German State North-Rhine-Westphalia (Kompetenzzentrum Mikroschadstoffe.NRW) since 2012
- Scientific work on the following topics: elimination of micropollutants, nutrient recovery, new sanitary concepts, membrane technique
- Process development regarding nutrient recycling of urine
- Improvement in efficiency regarding industrial water treatment
- Experience in cost comparison calculations in accordance with LAWA (German Federal States' Working Group on Water)
- Knowledge in HOAI (Official scale of fees for services by architects and engineers) and VOB (Regulations on Contract Awards for Public Works)
- Design and construction of wastewater treatment plants and operational support
- Design and construction of biological filtration and fixed bed systems for nitrification and denitrification
- Controlling and project management of construction works
- Elaboration of computerized operations diaries, instruction and maintenance manuals for wastewater treatment plants

Specific Country Experience:

<i>Country</i>	<i>Date: from (month/year) to (month/year)</i>
Germany	1991 - ongoing

Employment Record:

<i>Date: from (month / year) to (month / year)</i>	2008 - today
<i>Employer:</i>	Sweco GmbH, Cologne, Germany (formerly Deutsche Projekt Union GmbH → Grontmij Deutsche Projekt Union GmbH → Grontmij GmbH → Sweco GmbH)
<i>Positions held:</i>	Business Line Water & Energy Head of Department Water Cologne

<i>Date: from (month / year) to (month / year)</i>	2001 - 2008
<i>Employer:</i>	Institute of Environmental Engineering RWTH Aachen (Technical University), Germany
<i>Positions held:</i>	Head of the Working Group "Wastewater and Sludge Treatment"

<i>Date: from (month / year) to (month / year)</i>	1998 - 1999
<i>Employer:</i>	GKW INGENIEURE GmbH, Essen, Germany
<i>Positions held:</i>	Project Manager

<i>Date: from (month / year) to (month / year)</i>	1991 - 1999
<i>Employer:</i>	HYDRO-INGENIEURE GmbH, Düsseldorf, Germany
<i>Positions held:</i>	Project Manager