

Marco R. de Baar



 DIFFER institute, the Netherlands +

 



Sex | Date of birth | Nationality Dutch

WORK EXPERIENCE

1 July 2020- present	<p>Director NWO institute DIFFER</p>
April 2014 – June 2020	<p>Director Nuclear Fusion Programme at FOM DIFFER. Head of research unit. Member Eurofusion general assembly.</p> <p>Responsible for the operations of our facilities, the execution of our programmes, the formulation of new programme proposals and the quality and impact of the output of our department.</p> <p><i>Business or sector</i> Academic research</p>
January 2011 – April 2014	<p>Member of Scientific and Technical Advisory Committee, European Fusion Development Agreement</p> <p>Technical specialist on control of nuclear fusion plasma and remote handling</p> <p><i>Business or sector</i> Academic research</p>
September 2010 – present	<p>Full professor at TU/E.</p> <p>Special Interest: plasma control and plasma control systems.</p> <ul style="list-style-type: none"> ▪ PhD Supervisor: 17 candidates successfully completed: 10 on plasma control, 5 on Plasma Physics, 2 on remote maintenance of fusion reactors. 5 Candidates in the pipe. ▪ Lecturer. Developed two master courses on Nuclear Fusion Plasma Control <p><i>Business or sector</i> Academic research</p>
April 2007-April 2014	<p>Head Tokamak Physics Group at the FOM institute for Plasma Physics, Rijnhuizen research Assistant</p> <p>Program Manager for the development and construction of a high power micro-wave system for MHD control in ITER.</p> <p><i>Business or sector</i> Academic Research</p>
October 2004 - March 2007	<p>Head of the JET Operations Department (EFDA-CSU).</p> <p>Responsible for the availability and performance of the JET nuclear fusion reactor</p> <p><i>Business or sector</i> Academic research</p>

January 2003 - September 2004

Deputy to the head of the Electron Cyclotron Wave Physics Group at TEXTOR (Helmholtz Institut, Jülich, Germany).

Responsible for the design and construction of the transmission line of the 1 MW electron cyclotron power system, including active cooling and safety.

Business or sector Academic Research

March 1999 – December 2002

Fully qualified session leader at JET

Responsible for the design of tokamak discharges for the effective, efficient and save operation of JET.

Business or sector Academic research

EDUCATION AND TRAINING

October 1994 to December 1998

Ph.D. research

High Merit (7.9 avg. on scale 1-10, 10 high)

Research carried out at the FOM institute for plasma physics, degree obtained at Eindhoven University of Technology

- Turbulent transport in the electron channel and its suppression in Tokamaks

September 1988 to July 1994

MSc Experimental physics

Upper Second 2:1 (on scale 1, 2:1, 2:2, 3)

Utrecht University

PERSONAL SKILLS

Mother tongue(s) Dutch

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	B2	B2	B2	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent written communication skills – gained through experience and training in advanced report writing;
- Strong presentation skills – gained through professional training and experience.

Organisational / managerial skills

- Strong Technical project management skills.

Computer skills

- Excellent command of standard Microsoft Office™ tools (Word, Excel) through experience and advanced training.
- Experience with specialised LCA, GIS, MCA and accounting software.

Driving licence

- NL (EU) Driving