

Edouard RENY, 41 yrs

French

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Kerckwervelaan 70

Oegstgeest 2343 PE

The Netherlands

Researcher / Engineer

Industrial water chemistry (10 yrs industrial exp.)

Solid state sciences (5 yrs academic exp.)



Professional objectives

Remain strongly involved with innovation.

Put my skills at the service of society.

Guide others for a responsible use of our planet.

Experience

2002 – present

Sr. Research Chemist

Nalco - Ecolab

The Netherlands

Applied research in water chemistry for industrial cooling systems.

- Design, development, field trial and world wide deployment of water treatment programs for industrial cooling systems.
- Set-up of a state-of-the-art electrochemistry laboratory.
- International R&D project management.
- Research in the field of general and localized corrosion and its inhibition.
- Technical and scientific support to major sale processes. Trouble shooting.
- Technical support and consultancy to all departments (Supply chain, marketing, management, environmental services etc.).
- Prospecting work and exploration of ideas for new technologies.
- Literature / Patent search and technical surveillance.
- Training of students, technicians, sale representatives etc.

1999 – 2001

Post doctorate

Hiroshima Univ. Japan

Synthesis of a new silicon allotrope and its derivatives.

- Development of high pressure and high temperature synthesis of types of silicon and germanium based materials. Chemical and physical characterization

1995 – 1999 (PhD)

Bordeaux Univ. France

Synthesis and characterization of a new type of silicon: clathrates.

- Design and development of silicon clathrates synthesis. Various chemical and physical characterizations.

Skill set

- **Literature search, data analysis**, handling knowledge databases.
- **Analytical thinking**: strong ability to extract elements and reorganize them.
- Fluent in **French, English, German**: 9 years study at school and university (can regain a good level), basic conversational **Japanese** and notions of **Dutch**.
- **Water and general chemistry. Electrochemistry. Solid State Sciences.**
- Metallic surface protection, **corrosion** mechanisms.
- **Laboratory skills** (experimental design, equipment set-up, operational skills).
- **Physical and chemical characterization**. Data handling and interpretation.
- **Innovation and creativity** (thinking out of the box), finding unexpected solutions.
- **Managing and motivating a team** towards a common goal (**leadership**).

Education

1995 – 1999

1993 – 1995

1991 – 1993

1989 – 1991

PhD - solid state chemistry (very honorable).

Engineer Diploma - materials science (rank: 2nd/165).

Masters in science and technology - Industrial chemistry (rank: 2nd/24).

Degree in Technology - physical measurements (rank: 5th/89).

Other

- More than 30 publications and oral presentations.
- IT: skilled in all major applications. Facility to learn new software / IT technology.
- Hobbies: Music production, Photography (club manager), travelling and discovering new cultures (the adventurous type).