

Virginie AURELLE

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Date of birth : 24 September, 1985
Nationality : French

Process Engineer

EDUCATION

- 2005-9** **Ecole Supérieure de Chimie, Physique et Electronique, Lyon**
Specialization in Process chemistry :
Simulation processes, Dynamic modelling, Chemical reaction processes, Catalysis and Catalytic reactors, Separation processes, Solid humid chain processes, Biotechnology processes, Polymerization processes, Energy integration, Industrialization processes and Safety.
- June 2006** **Company Creation Project** at CPE Lyon rewarded by the first price :
Safety system for autonomous elderly people – One year project in a team.
- 2003-5** **Preparatory Classes** for CPE Lyon – Two years full time higher education in chemistry, physics and math.
- June 2003** **Scientific baccalaureat**– High School Leaving Certificate.

WORK EXPERIENCE

- since September 2009** **Chemical engineering consultant** in the Oil & Gas department of ALTEN
AIR LIQUIDE, CRCD, Jouy-en-Josas, F
- Modeling with Fortran of the hydrogen production process with steam methane reforming.
Optimization of the 1D model of the combustion chamber where the catalytic tubular reactors are heated and development of a 2D model for these catalytic reactors.
- February - August 2009** **Industrial placement** in the R&D department Conception / Modelization / Process
INSTITUT FRANÇAIS DU PETROLE (IFP), Solaize, F
- Modeling with Fortran of the Fischer-Tropsch waxes hydrocracking process.
Estimation of kinetic parameters for different wax feeds and operating conditions.
- Collaboration with LAGEP (Laboratoire d'Automatique et de Génie des Procédés).
- September 2007 – August 2008** **Industrial placement** as a R&D Process Engineer
GLAXOSMITHKLINE, Tonbridge, UK
- Simulation with Mixim (Fluent software) and experimental work with the aim of optimizing processes.
Participation to several projects concerning the mixing in batch stirred vessels, such as the characterization of multi-phases mixing in conical based vessel, and the estimation of online viscosity of a mixture by measuring the impeller torque.
- Collaboration with a multicultural team.
- July - August 2006** **Chemical Assistant in a laboratory** for analytical chemistry, **ARKEMA, Pierre-Bénite, F**
- Realization of analytical tests on products (titration, density, etc...).
- June 2005** **Internship in a biomedical company**, **MEDICALGROUP, Vaulx-en-Velin, F**
- Work on the production line.

LANGUAGES AND COMPUTING

- Languages** **French** – Mother tongue.
English – Very good working knowledge - One year placement in England.
Grade B at FCE (Cambridge exam) in January 2009.
Spanish – Good working knowledge.
- Computing** MATLAB, Fortran, Mixsim, ASPEN, ISIS Draw, Simulink, Microsoft Office and VBA.

INTERESTS AND ACTIVITIES

- Volunteering** - **President of the School Junior Company** – **SYNERGIE** (2005 – 2007) :
Responsible for managing the team and choosing the objectives and strategies for the year.
- BAFA – Diploma allowing the organization and monitoring in youth holiday camps (2005).
- Leisure** Outdoor sports as skiing and hiking.
Travelling : Europe, USA, North Africa.