





**Franck**  
CHANTELOUP

## CONTACT

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[https://orill.readthedocs.io/  
en/latest/index.html](https://orill.readthedocs.io/en/latest/index.html)

## WORK EXPERIENCE

**09/2016 - CURRENT**

### Head of nuclear safety

INSTITUT LAUE LANGEVIN

The Institut Laue Langevin (ILL) is an European research facility with a 58 MW heavy water nuclear reactor, cold neutrons sources, tritiated water/gas processes, and experimental areas. The Nuclear Safety unit is responsible for operational safety, acceptance files for design and construction of upgrades, safety studies and periodic safety reviews. It liaises with safety authorities (ASN) and its technical advisor (IRSN).

Grenoble, France

**06/2009 - 09/2016**

### Senior nuclear safety engineer

ORANO (ex-AREVA)

#### Work for ORANO uranium conversion and enrichment platform, Tricastin

Follow-up of safety requirements from design, installation to commissioning. Setting up requirements files on safety important components. UF<sub>6</sub> (uranium fluoride) and HF (hydrogen fluoride) plants cleaning project. Tricastin platform post-Fukushima check-up : modeling (thermodynamics and CFD) accidental releases (UF<sub>6</sub> / HF gases). Definition of safety requirements for new-build important equipment in accidental situations. Follow-up of safety important components in design, installation and commissioning phases. Periodic safety review of TU5 uranyl nitrate process plant.

#### Work for ITER IO

ITER 2010 "Preliminary Safety Report" and licensing files

#### Work for TECHNICATOME

"Agate" liquide radwaste process plant in CEA Cadarache : safety coordination during installation

**2007 - 06/2009**

### Nuclear design engineering

ITER IO - Hot Cell & Radwaste (conceptual / preliminary phase design)

CEA Cadarache - Liquid radwaste process plant "Agate" (final phase design)

**2005 - 2006**

### Nuclear dismantling

CEA Grenoble : SILOE reactor / cooling pond dismantling

CEA Marcoule : plutonium plant / fission products storage vessel clean-up / magnesium conveyors dismantling

**1997 - 2002**

### Chemical process engineering

SOLVAY

R&D (laboratory scale, modeling 3-phases systems: gaz / liquid / solid)

Pilot plant design, installation and commissioning

**1996 - 1997**

### Chemical engineer

French NAVY

Analytical marine chemistry

## EDUCATION AND TRAINING

2013 - 2020 - France

### Continuous training

INSTN

Organizational and human factors (FOH) in nuclear facilities

Fire hazard in nuclear facilities (ASN decision 2014-DC-0417)

Nuclear criticality safety (ASN decision 2014-DC-0462)

Nuclear HVAC

2005 - France

### MSc. Nuclear Engineering

Grenoble Alpes University

1995 - France

### MSc. Chemical Engineering

Ecole Nationale Supérieure de Chimie de Paris (Chimie ParisTech, PSL University)

Dissertation: simulation of a chemical process with (non-)recurrent multi-layer perceptron (Machine Learning)