

Cyril NICARD

Mobility: Cambridge / Availability: Immediately



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EDUCATION AND QUALIFICATIONS

• PhD

Material science

|2015-2018|

Paris Sciences et Lettres
Automotive Corrosion
Aluminium Coatings

• Master's degree

Material science

|2011-2014|

Graduate school of
Chemistry, Biology and
Physics of Bordeaux
<https://enscbp.bordeaux-inp.fr/fr>

• Master's degree

Magnetic Properties Electronic Organic

|2015|

Faculty of Bordeaux I
Specialisation in R&D
<https://www.u-bordeaux.fr/>

LANGUAGES

- **English:** Professional level
TOEIC score: 885/990 (2014).
- **French:** Mother tongue
- **Spanish:** Basics

COMMON SKILLS

- Microsoft office
(Word, Powerpoint)
- Excel / Origin
- Photoshop

INTERNET

 /cyrilnicard

<http://nicard.cyril@free.fr>

EXPERTISE

Project management:

Plan and follow scientific experiments
Result's communication
Risk control and analysis
Teamwork

Material and chemistry:

Physical and chemical
characterisation and analysis.
Spectroscopy technics.
Electrochemical testing.

EXPERIENCES

Research Scientist | IRCP – I2E | 2018 (4 months)

Graduate school of chemistry ParisTech, ENSCP (75 France)

- Prototypes design of experimental setups by 3D printing.
- Local electrochemistry • InSitu Spectroscopy.
- Teaching: metallurgy, electrochemistry.

PhD | ArcelorMittal - IRCP - ED 388 | 2015 - 2018

ArcelorMittal Research Centre - Maizière-lès-Metz (57 France)

- Subject: "Corrosion mechanism of AlSi(ZnMg) coated steel"
(anticorrosion protective coating for steel in automotive applications)
- Project management • Experimental design
- Conferences: EUROCORR Congress (Prague-2017 & Krakow-2018).
- Publication: One approved, two to be submitted.

"Nicard, C., Allély, C., & Volovitch, P., Effect of Zn and Mg alloying on microstructure and anticorrosion mechanisms of Al-Si based coatings for high strength steel, Corrosion Science (2018)"

R&D Scientist | Canadian National Research Council | 2014 (6 months)

CNRC research centre - Boucherville (Canada)

- Objective: reduce the part of petroleum-sourced components by using bio-sourced lignin in a thermoset material for automotive application.
- Results: material synthesized containing 10-30% of bio-sourced materials.
- Trial supervision • Quality & Security policy • Cross-Cultural Sensitivity.

R&D Scientist | SAFRAN Herakles | 2013 (5 months)

SAFRAN industrial and R&D centre - St-Médard en Jalles (33 FRANCE)

- Objective: adapt pyrotechnics products used in airbags to create other devices in automotive and aerospace safety.
- Developments: new silicon based solution developed to stabilize and regulate pyrotechnic consumption.
- Knowledge capitalisation • Engineering • Problem Solving • Teamwork.

RELEVANT SKILLS

Scientific:

- Spectroscopy (Raman, IR, UV) • Global and local electrochemistry (EIS, SVET).
- Microscopy (Optic, SEM, EDS) • Thermodynamic analysis (DSC, TGA)

INTEREST AND HOBBIES

Creative skills: • Autodidact in website design (<http://nicard.cyril.free.fr>)

HTML, CSS, PHP, JavaScript, MySQL learned with opensclassroom.fr.

- Programming in C++ language with OOP and Qt basics.
- 3D modelling (Fusion360) and printing (Ultimaker Cura)
- Geometric origami and paper modelling • DIY furniture maker.

Association: • Private tutor • Summer camp counsellor (|2008-2014| - BAFA)

Hobbies: • Artistic works • Movie enthusiastic • Board games.

Sports: • Climbing • Gym • Swimming • Badminton