

Materials for Energy R&D Senior Expert

EXPERIENCES

Global Insulation and Dielectrics Materials Expert

Schneider Electric - Since July 2022



- Global Expert on insulated materials and especially on thermal-electric properties
- World Leader of "Innovation" Workstream for resilient thermosets of the future
- World Expert on insulated materials properties under direct current stress
- Leader of "Materials and dielectrics" European laboratory (equipment, protocols, EHS, ...)
- Coordinator with Nanoelec Research & technology Institute (IRT)
- Contractor and students (intern, Ph.D) tutoring

Materials and High Voltage Expert

Prysmian Group - April 2021 to June 2022



- Technical expert for the South Europe R&D teams of Prysmian Group.
- R&D Project Manager :
 - Substitution of alternative gas to SF6
 - Dielectric studies on thermoplastics (lab to real size cable)
- Proposal and realisation of new axes of research on new cable technologies to prepare the future

R&D Project Leader - GE Technical Expert

GE et Supergrid Institute - May 2015 to April 2021 - Full-time - France



- Placement contract from GE as a technical expert - Edison L.2
- Management of various research axes on the development of Epoxy composites for HV applications
- Conception and lead of research projects with customers (Tender, Gantt, Budget, ...) => French manager of NanoCompEIM2 Project
- 2 patents and several communications (conferences, proceedings,...)
- Tutoring of students in Ph.D. and internships
- Leader of the "Materials/Chemical" laboratory of the institute
- Conception of partnerships with chemical industries

Group Leader "HVDC projects deliverables"

Alstom Grid UK Ltd - September 2012 to April 2015 - United Kingdom

- Technical manager - Supervision of spare parts and technical documentation for HVDC projects (40M€ to 1G€)
- Alstom/Customers interface on HVDC project deliverables
- Manager of 10 persons (recruitment, KPI, ...)
- Implementation and conception of processes needed to optimize management of technical documentation between units
- Leader of all documentation on HVDC projects for the unit

Assistant to project manager and technical project manager

Electric IT - November 2011 to August 2012 - United Kingdom

- Assistant to the technical project manager of project Kontiskan (40M€)
- Leader on spare parts on 2 HVDC projects
- Leader on the contractual spare part list, its management and their deliverable to the customers to validate a milestone of 10% of the project value

Postdoctoral researcher in physical-chemistry

University of Missouri - USA - September 2009 to August 2011 - United States

- Lead on a research project on kinetic and reactivity of small radicals combustion
- 1 peer-reviewed publication
- Tutor of a graduate student and of 2 ph.D. students



45 years old
Driving License

CONTACT

✉ email@damien-bachelierie.com
☎ +33 7 60 96 47 25
📍 21 Rue Blanche Monier
38000 Grenoble
France

ABOUT ME

I am an industrial researcher with 20 years of experience. After some researches on carbonaceous materials, I am now focus on innovative composite materials for High Voltage applications. In addition to my research skills, I am experimented in project management, in communication with customers, in technological watch and in team management.

I am interested to continue to work in materials R&D projects either in the energy domain or in new technologies and ideally always in a sustainable way.

To succeed in my tasks, I have got an out of the box mind which allows me to quickly analyse various topics (e.g. management, technological bottle-necks, project tenders, communications) to extract current or potential issues then to propose innovating solutions to counter or avoid them. This allows me to complete my projects in time while respecting their budgets.

ATER (Research and teaching assistant) in physical-chemistry

ISMO (previously LCAM) - December 2008 to August 2009 - France

- Conception of dynamical study on atoms-surface reactions
- 1 peer-reviewed publication and several communications
- Teaching (chemistry and physical-chemistry) in bachelors and masters degrees
- Tutor of 3 internship students

Ph.D. in molecular physical-chemistry

University Paris-Sud 11 - LCAM - September 2005 to December 2008 - France

- In charge of a research project to understand the formation of molecular hydrogen in the interstellar medium - study of reaction between atoms and surfaces
- 3 peer-reviewed publications as first author and several communications (national and international conferences)

EDUCATION

Ph.D. in molecular physical-chemistry

UNIVERSITY PARIS-SUD 11

September 2005 to December 2008

"Formation of molecular hydrogen on carbonaceous surfaces in the interstellar medium"

http://hal.archives-ouvertes.fr/docs/00/36/84/17/PDF/these_Bachelierie_Damien.pdf

SKILLS

Technical et management	<ul style="list-style-type: none">• Thermosets, thermoplastics, elastomers, composites• Physical-chemistry, surfaces, reaction and process• Internal and customer communication	<ul style="list-style-type: none">• MVAC, HVAC, HVDC, UHVAC• Projects : management from tender phase to completion• Team management (>10)
Softwares et programmation	<ul style="list-style-type: none">• Multiphysics computation : Comsol• DFT, ab-initio and empirical methods: Gaussian, Molpro, ADF	<ul style="list-style-type: none">• Simulation: Molecular dynamics and monte carlo• Modern Fortran, C, C++, VBA
Language	<ul style="list-style-type: none">• French - mother tongue ★★★★★• Italian - waystage (A2) ★★☆☆☆	<ul style="list-style-type: none">• English - fluent (C2) ★★★★★• Japanese - waystage (A2) ★★☆☆☆

INTERESTS

Sport

- Martial arts - Karate Shotokan - Black belt (practice since 1994)
- Squash, Biking, ...

Technologies

- Computer-literate : Hardware and Software
- Advanced sciences and New technologies

Reading

Fantasy, Science Fiction, ...