



# DAMIEN BACHELLERIE

## Materials R&D Senior Expert

45 years old - Driving License

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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.

## EXPERIENCES

### Dielectrics Expert



Schneider Electric - Since July 2022

- World Leader of "Innovation" Workstream for thermosets of the future
- World Expert leading the group study on insulated materials properties under direct current stress
- European expert on insulated materials and especially on thermo-dielectric properties for R&D projects support
- Leader of "Materials and dielectrics" european laboratory (equipment, properties, test protocols, EHS, ...)
- 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
- Development of new test platforms for cables and accessories

### 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 composite materials for High Voltage 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 "Material/Chemical" laboratory of the institute - Conception of Materials composites
- 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, ...)

## 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€)
- Coordinator for technical documentation with customers
- Leader on spare parts on 2 HVDC projects

## Postdoctoral researcher in physical-chemistry

Department of 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

## 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

## EDUCATION

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### 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-](http://hal.archives-ouvertes.fr/docs/00/36/84/17/PDF/these_Bachelorie_Damien.pdf)

[ouvertes.fr/docs/00/36/84/17/PDF/these\\_Bachelorie\\_Damien.pdf](http://hal.archives-ouvertes.fr/docs/00/36/84/17/PDF/these_Bachelorie_Damien.pdf)

### Master Degree in research in Molecular physical-chemistry

UNIVERSITY PARIS-SUD 11

September 2003 to June 2005

Major in: Spectroscopy, Nanoreactivity, Simulation and Modelisation, Biophysics, Photochemistry et Photophysics, Polymers - conception and process, Quantum dynamics.

## SKILLS

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### Technical et management

- Thermosets, thermoplastics, elastomers, composites
- MVAC, HVAC, HVDC, UHVAC

- Physical-chemistry, surfaces, reaction and process
- Projects : management from tender phase to completion
- Internal and customer communication
- Team management (>10)

## Softwares et programmation

- Multiphysics computation : Comsol
- Simulation: Molecular dynamics and monte carlo
- DFT, ab-initio and empirical methods: Gaussian, Molpro, ADF
- Modern Fortran, C, C++, VBA

## Language

- French - mother tongue 
- English - fluent (C2) 
- Italian - waystage (A2) 
- Japanese - waystage (A2) 

## INTERESTS

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### 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, ...