

CURRICULUM VITAE FOR TENDERING

TYPE OF EXPERTISE:

CATEGORY:

1. **Family name:** TRIBOUILLARD
2. **First names:** Nicolas
3. **Date of birth:** 1965
4. **Nationality:** French
5. **Education:**

Institution [Date from - Date to]	Degree(s) or Diploma(s) obtained:
INSA School of Lyon France (1993-1994)	Computing Master
University of Dijon, France (1987 -1988)	Post-graduate Degree in Company Administration
University of Dijon, France (1982 -1987)	Post-graduate Degree in Geology

6. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
French	1	1	1
English	2	3	3
German	5	5	5

7. **Membership of professional bodies:** -
8. **Other skills:** -
9. **Present position:** Independent Consultant
10. **Years within the firm:** -

11. Key qualifications:

Nicolas TRIBOUILLARD has a post-graduate diploma in Geology from the University of Dijon and a computing Master from the INSA School of Lyon. He is Hydrogeologist, with a specialization in the simulation software in the field of ground waters.

Since 2002, he worked as independent in technical expertise and the development of complete computing applications:

- Hydrogeological study and assessment of ground water resources,
- Modelling of ground waters (Modflow, Feflow),
- Data processing, database (Access), GIS (MapInfo)
- Geographical Information Processing,
- Programming (VB6, VB.NET and Fortran),
- Training of users.

12. Professional experience

Date from - Date to	Location	Company	Position	Description
2015	France	Independent Consultant		<p>Grand Paris Metro – Burgeap / SGP – Calculation of groundwater levels for underground structures (stations and tunnel) : hydrogeological modelling and simulations with Feflow 6.2</p> <p>ROSALYE Software – Burgeap / Grand Lyon – Program Migration to the 64-bit environment : code rewriting (50 000 lines) using VB.NET in Visual Studio 2013</p>
2014	France, Mauritania	Independent Consultant		<p>Mauritania - - SEURECA / RIM – Study of Groundwater resources on Taoudeni basin : construction and calibration of multilayer Modflow model on an area of 100 000 km²</p> <p>Lyon Gerland – 2CEL - Hydrogeological effect study for the setting up of heat pumps, hydrodynamic Modflow model and thermic transfer in groundwater</p> <p>ROSALYE Software – Burgeap / Grand Lyon – Software developments : automatic calculation of infiltration basins flow, integration of 96 pumping rates</p>
2013	France	Independent Consultant		<p>Chautagne Swamp – Burgeap / ONF – Hydrogeological impact study for drain modifications: multilayer groundwater modelling (Modflow), simulations</p> <p>Miribel Jonage Park – Burgeap / Grand Lyon – Hydraulic restructuring rivers project: hydrogeological impact study, groundwater modelling (quantitative and qualitative)</p> <p>ROSALYE Software – Burgeap / Grand Lyon – Mathematical model calibration and software developments</p>
2012	France	Independent Consultant		<p>East Lyon Railway – Burgeap / RFF - Groundwater Modelling (Modflow), simulation of impervious structures</p> <p>OREOS Software – Burgeap R&D – NAPL simulation interfacing (Non-Aqueous Phase Liquid in soils) - VB2008 language</p> <p>Impervious river bank project (69) – Burgeap / EDF / Grand Lyon – Hydrogeological impact on wells by groundwater modeling (Modflow)</p>
2011	France, Benin	Independent Consultant		<p>Well field of Roanne – Roannaise de l'Eau – Groundwater Modelling: simulations of new wells and cases of pollution (Modflow MT3D)</p> <p>New Hydrogeological Map of Benin - IGIP / GIZ – Hydrogeological synthesis and cartography on GIS (MapInfo)</p> <p>Gravel pits on Moselle river - Burgeap / GSM - Groundwater Modelling (Modflow), simulations of water plans extension</p>
2010	France	Independent Consultant		<p>Pollution of Moselle River aquifer - EPFL / Burgéap: Study of chlorinated solvents pollution, groundwater modelling (code ModFlow RT3D)</p> <p>Nappe du Drac Software – REG / Burgéap: specific interfacing of the Drac River groundwater model (ModFlow), training of users</p>
2009	France	Independent Consultant		<p>ROSALYE Software - Grand Lyon: setting up and development of a computing processing for the protection in real time of the Lyon well field (Drinking Water Supply 300 000 m³/j).</p> <p>Underground parking in Mérignac (33) – Ginger Environnement: hydro geological impact study, groundwater modelling (Modflow)</p> <p>Isère River aquifer (38) – Burgéap - Hydrogeological modelling (Modflow) for industrial impact.</p>

2008	France, Chad	Independent Consultant		Aquifers of the east of Lyon – Burgéap/CG69 - Database for boreholes and infiltration basins, mapping Valley of Garon (69) – Burgéap/Syndicat des Eaux du Sud-Ouest Lyonnais – Modelling of the ground water 3D, pollution transfer in a non-saturated zone (FeFlow). Eastern Chad (Ouaddaï-Biltine) – Burgéap/IGIP – Computing support on the database (Access) and GIS (MapInfo) of two Village hydraulic projects, training of users.
2007	France	Independent Consultant		Software of a piezometrical mapping Grenoble (38) - Burgéap/REG: management of database and modules of routes/correction of maps of the ground water level 2D/3D. Water catchment area of the Water Trade Union of the North East of Lyon (69) - Burgéap/SIENEL: study of the moving of pumping wells, modelling of the ground water (ModFlow). <i>Napely</i> Software (69) – Burgéap/Grand Lyon: update of the simulation software of the ground water level with a new mathematical model (code MOSAIC).
2006	France, China	Independent Consultant		<i>Basse Vallée of Ain</i> Software (01) – Burgéap/CG01: interfacing of a ground water model (ModFlow), specific screens, training of users. AEP Project 100 000 m3/d Weinan (China) - Veolia Water: construction and setting of the hydrogeological model (ModFlow - aquifer multilayer), simulations Triterre Database – Burgéap/SEM Lyon Confluence: management and sorting of polluted lands.
2005	France	Independent Consultant		Water plan of Peyrolles in Provence (13) - V. Riou Consultant/Durance Granulat: study and hydro geological modelling, issue of the drop of the ground water level. Burgéap R&D: development of utilities for modelling software (ModFlow, UTGMS). Well field of Crépieux-Charmy in Lyon – Grand Lyon: definition of transfer of isochrones, hydro geological modelling.
2004	France, China, Chad	Independent Consultant		AEP Project 100 000 m3/d Weinan (China) – Veolia Water: assistance to the prime contractor on the hydrogeological modelling side. Village hydraulic programme Ouaddaï-Biltine (Chad) – Burgéap/IGIP: mission of computing support on the database of the project (Progres). Aquifers of the east of Lyon - Burgéap: setting up of a management global model of aquifers (3 hydrogeological corridors) in the framework of SAGE: creation of the numerical model, development of the simulation software <i>Napely</i> , database "Boreholes". Burgéap R&D: development of utilities of transfer between modelling software (UtChem – Simuscopp - GMS) Water catchment area of Sanary s/Mer (83) - V. Riou Consultant: hydrogeological modelling for the dynamic protection of well fields.
2003	France, Chad	Independent Consultant		Almy Bahaïm 2 Project (Abéché - Chad) – Burgéap: hydro geological support mission, synthesis of works of water research. <i>Napely</i> Software - Burgéap/Grand Lyon: modelling of the ground water in the East of Lyon, database Well field of Crépieux-Charmy in Lyon - Générale des Eaux: definition of the exploitable maximum outflow, hydrogeological modelling.
2002	France	BURGEAP	Engineer	Wetland of Lavours and Chautagne - EID: modelling of an multilayer aquifer for an environmental study on the Haut-Rhône. Setting up of Mage/Adis - Grand Lyon/Cemagref: adaptation of a software of hydraulic simulation and mass transfer for the Rhône river. Lyon Airport - Saint Exupéry - CCI 69: hydrogeological study for the setting up of infiltration basins, mathematical modelling. Modelling of Rhône aquifer- Osiris: study of hydrogeological effect of industrial pumpings, mathematical modelling Virgule TGV Avignon - RFF: hydrogeological effect of underground structures. Well field of Chasse s/Rhone – Trade Union AEP/Lyonnaise des Eaux: hydro geological modelling for the qualitative diagnosis of water catchment areas.

2001	France	BURGEAP	Engineer	CET Savoie - CG Savoie: inventory and database on the landfills in Savoie. Django Reinhardt Basin - Grand Lyon: hydrogeological impact (quantitative and qualitative) of an infiltration basin of rain waters in Chassieu (Rhône). <i>Nappe of Gapeau</i> Software - Générale des Eaux/Ville de Hyères: creation of a protection software of water catchment areas against the intrusions of sea water, mathematical modelling. Aquifers Liban West- OEB: study of vulnerability of the resource ground water: multicriteria analysis (geology, soils occupation) on the basis of geographical information processing.
2000	France	BURGEAP	Engineer	Lyon Airport Saint Exupéry A432 - Scetauroute: a qualitative effect study on the ground water of the project concerning the highway bypassing of the airport. Database Karstic Patrimony - AERMC: hydro geological synthesis, bibliography on the karstic housing projects of the south of France. Gravière Pougny (74) - Carrier/DRIRE: hydro geological impact study in anticipation of the filling of a gravel pit, mathematical modelling. Collecteur Nord de Vaulx en Velin - Grand Lyon: impact study of waste in river on water supply pumpings in alluvial ground water, mathematical modelling.
1999	France	BURGEAP	Engineer	Heat pumps Lyon - Various private promoters: hydro geological effect study for the setting up of heat pumps, hydrodynamic modelling and thermic transfer in ground water. Databasa routes in karstic environment - AERMC: database on the routes in karstic environment on the tracing of the Rhône-Alpes area, geographical information processing. Ground water of Albi and of Néocomien - AESN: database (Access) of deep forages drillings in Ile de France area. Climb of Choulans in Lyon - Générale des Eaux: geotechnical expertise followed up the pipe breakage at high output.
1998	France, Mexico	BURGEAP	Engineer	Hydrosystems Rhône - DDAF 69:database and multicriteria analysis tools for the characterization of the hydraulic system ZAC des Fours Culoz - Town of Culoz/DDE 01:geotechnical study, monitoring of pre loading on compressible grounds Mali: Database for village hydraulics <i>Masaguas</i> Software (Aguascalientes - Mexico) - FASEP/CAASA: setting up and development of a software of projected management of ground water on the basis of mathematical modelling of underground outflows
1997	France	BURGEAP	Engineer	UPEP - AERMC: database on the unit of production of drinking water in the Rhône-Alpes area St Jean de la Porte (73) - Chambéry DUC: creation of wells for the irrigation, hydro geological modelling Quartier Piémonte Lyon - Générale des Eaux: geotechnical expertise after a pipe breakage, recovering Well field of Crépieux-Charmy 2 nd Tranche - Grand Lyon: proportioning of a hydraulic barrier, mathematical modelling Moulins - CG 03: study for the protection of water catchment areas
1996	France	BURGEAP	Engineer	1000 m3/h Miribel Tramoyes (01) - DDAF 01:study of the resource of ground water for the agricultural irrigation, mathematical modelling Well field of St Rémy (01) - CG 01:hydrogeological study of water catchment areas, mathematical modelling Simandre (69) - DDAF 69: geotechnical study Décines Meyzieu Jonage - Grand Lyon: hydro geological study for the protection of well fields.
1995	France	BURGEAP	Engineer	Diagnosis NO3 Bourg en Bresse - DDAF 01: hydrogeological diagnosis on the nitrates in ground water Saône Turdine – Trade Union AEP Saône Turdine: hydrogeological modelling linked to the Fe/Mn problem
1994	France	BURGEAP	Engineer	MS Mosaic - AESN: setting up of a hydrogeological modelling software Hydrogeological synthesis of the Dombes - CG01: inventory and hydrogeological study, setting up of a database concerning the hydro geological field of the Dombes, geographical information processing
1992	France	CEBTP	Engineer	Geotechnical studies: buildings and infrastructures in the Bretagne/Pays de Loire areas Missions of geotechnical controls Control of the motorway site A421 Nantes - GTM

1991	France	CEBTP	Engineer	Geotechnical road Challans - CG 85: polls, laboratory tests, proportioning of roadways Geotechnical studies for the Refinery of Donges (44) - ELF: polls, proportioning of deep foundations, substitution
1990	France	CEBTP	Engineer	Geotechnical study for landing stage in Indret (44): expertise, inclinometry Expertise, foundation for the dry disaster - CG 49: polls, superficial foundations Rehabilitation of site - COGEMA: study of shrinkage Coëtquidan (56) - Ministry of Defence: roadway geotechnic, proportioning of roadway
1989	France	CEBTP	Engineer	Airlines and electric posts in Bretagne and Pays de Loire areas - EDF CRTTO: geological studies, foundations Bridge of Chevire Nantes - DDE 44: concrete control Geotechnical expertises on buildings and houses - Bouygues/SARETEC

13. **Other relevant information (e.g., Publications):** Professional Web Site www.nicolastribouillard.fr