



CT2M OVERVIEW AND CONSULTANTS RESUMES





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1 Strong points of the offer and commitments of CT2M

☐ Recognized experience and in-depth knowledge of the field

- ✓ CT2M has been training and accompanying companies, organizations and laboratories for more than 20 years in the fields of quality, metrology and estimation of uncertainties.
- ✓ CT2M focuses its training and accompanying on the practice and knows how to adapt their content to the requests of the client
- ✓ CT2M is working in all the field of activities

☐ A young and dynamic team of specialists

- ✓ CT2M offers you a team of engineers that is versatile, responsive, competent, dynamic, available and user-friendly.
- ✓ The consultants of CT2M have accompanied and are accompagnyng a lot of calibration and testing laboratories in their accreditation projects (see references), on the implementation of both quality and technical requirements.

☐ A human-sized company

- ✓ CT2M is composed of ten people to enable a direct relationship with representative (consultants, laboratory staff, ...).
- ✓ The skilfullness and plurality of the consultants allow a great flexibility in the planning and potential replacement.

☐ A guarantee of independence for the consultants

- ✓ CT2M is neither supplier of equipment nor calibration provider (except mass calibration) nor partner with any of them. Thus the client has the guarantee of independence of the consultants of CT2M in its ftrainings and its advices, in particular in the choice of the providers

☐ Internal experience in quality management, metrology and accreditation

- ✓ CT2M has a COFRAC accredited laboratory in mass calibration since 1994 ;
- ✓ The CT2M engineers have experience in managing a quality management system that complies with the COFRAC requirements. Therefore they have the necessary distance to advise on the simple and effective implementation of a quality system, Metrology and in the estimation of uncertainties ;
- ✓ The CT2M consultants are internal auditors and / or COFRAC evaluators according to ISO 17025.

2 CT2M: Mediterranean Technological Center of Metrology

➤ Main activities:

Training / Consulting / Audit

Our mission:

« Supporting companies and laboratories in their Quality and Metrology projects »

Possibilities of interventions:

- | | |
|------------------------|-------------------------|
| ✓ Training | ✓ Audit / Diagnostic |
| ✓ Support | ✓ Preparation for audit |
| ✓ Technical assistance | ✓ Studies / Expertises |



Organisation of interlaboratory comparisons

Our mission:

« Organizing, planning and results processing in accordance with ISO 17043 and ISO 13528 »

Possibilities of interventions:

- ✓ Testing: chemical disinfectants and antiseptics, suspended matter, ...
- ✓ Calibration: micropipette, temperature sensors, weighting scales, ...

Calibration of masses and volumetric apparatus

Our mission:

« Calibrate and verify masses under COFRAC accreditation »

CT2M has been **accredited by COFRAC** since 1994 for calibration of masses and therefore has a quality management system and organization in accordance with the requirements of ISO 17025.

Possibilities of interventions:

- ✓ Calibration of masses from 1 mg to 5 T and non standard masses
- ✓ Calibration of automatised POVA (excluding accreditation)



➤ Various information:

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No. of activity declaration: N°93 13 05202/13.

ASC code: 7120B

This registration does not imply approval of the state.

3 Consultants resume



David BENHAMOU

*Director / SCOP manager
Training activity Supervisor / Consultant
COFRAC technical auditor*

Tel.: +33(0)6 78 00 10 26 E-mail: dbenhamou@ct2m.fr

Education:

- ✓ Engineer of the National Polytechnic Institute of Grenoble (INPG) – Option: chemistry (France)
USA – University of Florida: one semester in environmental and quality management
- ✓ Professional thesis « Quality Management » in ENSAM Paris (École Nationale Supérieure des Arts et Métiers)
- ✓ Auditor qualification (2006) and COFRAC technical assessor (2014)

Work experience:

Since 2005: Project engineer and trainer at CT2M

Since 2014: Training activity supervisor at CT2M

2002–2005: Metrology and quality assurance engineer in an environmental laboratory, accredited by COFRAC according to EN ISO/CEI 17025

2001–2002: Environmental and quality engineer in EDF – Nuclear plant of Tricastin (France)

Experiences at CT2M:

Training:

- *Quality according to ISO 17025, ISO 15189 and ISO 9001:* Training and support to build a quality management system (CH Valenciennes, CH Bassin de Thau, CEA, DRIRE, Biosanté, EDF, INERIS...)
- *Able to audit an accredited laboratory according to ISO 17025, ISO 15189 and ISO 9001:* DIREN, AREVA, Lyonnaise des Eaux, Hospital of Valenciennes, EDF, CEA, LBM Biosanté
- *Metrology et uncertainties estimation applied to chemical risks:* LyondellBasell, Protec, ...
- *Methods validation:* IRSN, Coca-Cola, Laboratory PHYLLIS, TOTAL Lacq, EDF TEGG, ...

Laboratories support:

- *Accreditation according to ISO 17025:* AIRFOBEP, Laboratory EDF CEIDRE TEGG at Aix en Provence, CTMNC, AP-HM, Pronetec
- *Accreditation according to ISO 15189:* Hospital of Toulon, Institut Paoli Calmettes, HCL
- *Uncertainties estimation for all the laboratory analysis:* CEA Cadarache SEEC/LECD

Audit in accordance with ISO 17025, ISO 15189 or ISO 9001 and metrology diagnostics (examples):

- *Nuclear industry:* CNPE EDF – Environnemental laboratories, Environmental Monitoring Network of Tricastin nuclear plant (AREVA NC, SOCATRI, EURODIF), CEA Cadarache LANSE, IRSN Le Vésinet LMN and LTE, Laboratory of anthropogammametry of the DCNS Toulon, ...
- *Biological and Medical sector:* AFLD, CH Valenciennes, Biosanté, Bioqualité, Institut Pasteur, ...
- *Environment sector:* DIREN, Airfobep, Total LCE, Pronetec, ...
- *Other sectors:* EDF DTG hygrometry laboratory, TOTAL, ROYAL CANIN, Lyonnaise des Eaux



Laure DOMENECH

*Quality Manager of CT2M
Technical and quality manager of the accredited laboratory
Consultant*

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Education:

- ✓ Engineer of « École Nationale Supérieure des Mines d'Albi (ENSTIMAC) » – Option: pharmaceuticals (France)
- ✓ Auditor qualification according to ISO 17025 (2006)

Work experience:

Since 2015: Technical manager of the mass calibration laboratory of CT2M that is COFRAC accredited since 1994 and Quality Manager of CT2M

Since 2007: Quality manager of the mass calibration laboratory of CT2M that is COFRAC accredited

Since 2006: Consultant at CT2M

2004-2005: Process Engineer at Novo Nordisk (Chartres) – 16 months contract

Experiences at CT2M:

Trainings about the following themes:

- *Quality (according to ISO 17025, ISO 15189 and ISO 9001)*
- *Audit according to ISO 17025, ISO 15189, ISO 9001 and metrological function*
- *Metrology (masses, balances, temperature, volumes)*
- *Uncertainties estimation*

Laboratories support:

- *Support to accreditation according to ISO 17025:*
 - In nuclear area: EDF, NAVAL GROUP, IRSN, CEA
 - In food area: Quality control laboratory of Royal Canin
- *Support to accreditation according to ISO 15189 (biological laboratories):* Hospitals of Nîmes, Bastia, Toulon, Avignon, Ajaccio, Lyon

Internal audits and diagnostics:

- *Internal audits according to ISO 17025, ISO 15189 and ISO 9001 :*
 - In nuclear area: AREVA LEA and Tricastin, CEA, IRSN, ALGADE
 - In water analysis: Société du Canal de Provence, Communauté Urbaine de Lyon, OEHC Bastia
 - Others : Pronetec, INRETS, AIRFOBEP, Lyonnaise des Eaux, CAR, LAREBRON, DGA
- *Diagnostics:* CNRS Montpellier (LMGC), CEA Marcoule (LAMMAN), LVD55, Comurhex Narbonne (Control laboratory), CIRAD Montpellier (UMR DAP), EDF Nogent sur Seine (environmental laboratory), Hospitals of Bastia, Toulon, Nîmes, Avignon, ...



Boris GEYNET

*Deputy director
Interlaboratory Proficiency Testing Manager
Consultant*

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Education:

- ✓ Engineer of the « Institut National des Sciences Appliquées (INSA) » at Toulouse (France)
- ✓ PhD at the Sciences and Technology University of Lille (USTL)

Work experience:

Since 2009 : Consultant at CT2M
2005-2008 : PhD at STMicroelectronics (Crolles - France)

Experiences at CT2M:

Training:

- *Quality according to ISO 17025, ISO 15189 and ISO 9001:* TOTAL Solaize, EDF CNPE Penly, CTG Guerville, Bioqualité, CIRAD, ...
- *Able to audit an accredited laboratory according to ISO 17025, ISO 15189 and ISO 9001:* SCL Marseille, IGNA Nantes, Eurofins Aix, AREVA Tricastin, Bioqualité Guadeloupe, CAR, LAREBRON, ...
- *Metrology and uncertainties estimation:* Society of the Canal de Provence, EDF, Laboratory COOPERDB3, Pearl SAS, IPSSEN Signes, Grocep, INRA, Moteurs Baudoin, IRSTEA, IRSN, Unither Pharma, LNCR, CIRAD, ...
- *Organizing and ILC results processing:* LNCR, IRSN, ...

Laboratories support:

- *Accreditation according to ISO 15189:* HUPSSD, Hospitals of Perpignan, Avignon and Bagnols sur Cèze, HCL, Unilians, IRSN LAMR Le Vésinet, CHICAS, ...
- *Accreditation according to ISO 17025:* Phiprocess, EDF CEIDRE Chinon, 13.56 Services, EDF CNPE Nogent sur Seine, EDF CNPE Saint-Alban, ...

Internal audits and diagnostics:

- *Internal audits according to ISO 17025, ISO 17043, ISO 15189, ISO 17043, ISO 9001:* CEA Marcoule, CIRAD Guadeloupe, SCP Aix, AREVA Eurodif (Tricastin), IRSN LAMR Le Vésinet, SOBEGI Lacq, Pronetec, CEA Cadarache, CAR, LAREBRON, Lyonnaise des Eaux, DCNS Toulon, Algade, CERCA LEA, Sigma Béton, OEHC Bastia, ...
- *Diagnostics:* EDF UP Méditerranée, IXSurvey, EDF CEMETE, EDF CNPE Nogent sur Seine, Hospitals of Bagnols-sur-Cèze, Avignon and Princesse Grace (Monaco), HCL, HUPSSD, Solvay, EDF CNPE Bugey, Fondation Hopale (Berck/Mer), ...
- *Certification according to the referential « Label Fiabilité Mesures »:* CIRAD Montferrier, INRA Montpellier, IRSTEA Aix, CNRS LMA Marseille, ...



Nathalie SUGLIANO

*Consultant
Security Officer
Quality assistant of the Training activity*

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Education:

- Engineer of « École Nationale Supérieure des Sciences Agronomiques » at Bordeaux (France) - Option : Quality, Security, Environment

Work experience:

Since 2013: Project engineer at CT2M

2012: Heineken (France) : Project engineer

QSE project: updating of the single document, animation of the QSE system (ISO 9001-ISO 14001), and participation in the TPM approach.

Experiences at CT2M:

Training:

- *Quality according to ISO 17025 and ISO 9001, Become a Quality Manager, process approach* : CAMP LDA 48, EDF, Coca-cola, TERANA, DGA
- *Metrology and uncertainties estimation* (GUM, ISO 11352, Monte-Carlo) : DGA, Colmarienne des eaux, EDF Civaux, EDF Bugey, CIRAD, INRA, CH Béziers, Perrier,...
- *Method validation*: Urban Community of Lyon, CDE,
- *Pre-packing control*: CRITT AGRO, ...

Laboratories support:

- *Compliance upgrade of analysis in accordance with ISO 17025* (quality, metrology, uncertainties, method validation) : EDF Chinon (for 4 years)
- *Metrology and uncertainties estimation*: SIGMA BETON, EDF CEMETE, ...
- *Implementation of process approach* : CAMP LDA 66
- *Pre-packing control*: La Fermière, ...

Internal audits and diagnostics:

- *Internal audits according to ISO 17025*: Areva Mines, LyondellBasell, CTCM, EDF CEMETE, Sigma béton, DCNS, Céblab, Astérialis, Arcelor Mittal, IRSN, Pronetec, ...
- *Audit de labellisation selon le référentiel « Label Fiabilité Mesures »* : CIRAD Certification according to the referential « Label Fiabilité Mesures »: CIRAD



Lise HEGRON

Consultant

Communication manager

Quality assistant of the InterLaboratory comparison activity

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Education:

- ✓ Engineer of « École Nationale Supérieure de Céramiques Industrielles » (ENSCI) – Option : Glass and ceramic nuclear material
- ✓ PhD at the University of Aix-Marseille (France) in solid mechanics

Work experience:

Since 2014: Project engineer / Consultant at CT2M

2011 - 2014: Research engineer / PhD : CEA Cadarache (France)

Experiences at CT2M:

Training:

- *Quality according to ISO 17025 / ISO 9001, Become a Quality Manager, Process approach:* Laboratory of water control (Clermont-Ferrand), CERCA LEA, EDF Chinon, Agri 82, LNCR, AREVA (Tricastin), Civil aviation
- *Able to audit an accredited laboratory according to ISO 17025, ISO 15189:* Eurofins ATS, AP-HP, Cerema, Labo PL
- *Metrology and uncertainties estimation:* Lyonnaise des eaux, EDF (Chinon, Penly, Flamanville), LDA 43, Laboratory de contrôle des eaux (Clermont-Ferrand), ONERA, Laboratories of medical biology (AP-HP, HCL, Boursiac, GNLI, Bioqualité, Biosanté Symbiose), EPLM, SIAAP, INRA, IRSN (LDI), SGA Brest

Laboratories support:

- *Compliance upgrade in accordance with ISO 17025 :* NucLab (CEA Marcoule), Effluents laboratory of EDF Penly
- *Uncertainties estimation :* IRSN (LDI)
- *Support in certification according to the referential « Label Fiabilité Mesures »:* laboratory of IM2NP (University of Aix-Marseille), Underground Laboratory at Low Noise (LSBB) - Rustrel

Internal audits and diagnostics:

- *Internal audits according to ISO 17025:* Areva NP/LEA (in pairs), Society of the Canal de Provence, SEVN, IRSN (LDI, LPMA, SAME), OEHC, CARSO laboratories (CAR, LAREBRON), Metropolis of Lyon (Direction of water), SUEZ Eau France (CTCM), AREVA DSI/LOG
- *Metrological diagnostic:* EDF Penly
- *Certification according to the referential « Label Fiabilité Mesures »:* Atelier des Isotopes Stables (INRA Montpellier), Arcane (CENBG/ADERA) – Bordeaux



Camille GONNET

Consultant

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Education:

- ✓ Engineer of « Institut National des Sciences Appliquées (INSA) » at Lyon (France)

Work experience:

Since 2015: Project engineer at CT2M

2014 - 2015: Consulting engineer in nuclear field: SOM Méditerranée

Experience at CT2M:

Training:

- *Quality according to ISO 17025 / ISO 9001, Become a Quality Manager, Process Approach:* EDF Gravelines, Golfech, IRSN, Coca-cola, ...
- *Metrology and uncertainties estimation:* EDF Gravelines and Golfech, Laboratory of Pyrenees and Landes, SGA Ministry of Defence Toulon, medical biology laboratories (Hospital of Paris, Lyon), Integra NeurSciences Implants, ...
- *Able to audit an accredited laboratory according to ISO 17025:* IRSN, Departemental laboratories, ...

Laboratories support:

- *Support to the Quality Manager* (animation of management reviews, preparation for the audit, monitoring of nonconformities and quality indicators): Environmental laboratory that is COFRAC accredited at EDF CNPE of Bugey
- *Compliance upgrade of analysis in accordance with ISO 17025 (quality procedure writing, steering actions)* : Effluents / Microbiology laboratory at EDF CNPE of Bugey
- *Validation of calculation files for the development and validation of methods according to NF T 90-210* : EDF Ceidre
- *Compliance upgrade in accordance with ISO 9001 versus 2015* : TESCANA ANALYTICS

Internal audits and diagnostics:

- *Internal audits according to ISO 17025:* Laboratory of Metrology and Masses AREVA, CT2M Mass Calibration Laboratory (in pairs); Platform SOBEGI (Total Lacq), ArcelorMittall
- *Diagnostic according to DI 61 ind 2 (EDF referential):* EDF Civaux (Logistics and maintenance)
- *Internal audits according to ISO 9001:* TESCANA ANALYTICS



4 Your contacts

Technical contact for the training activity : David BENHAMOU

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5 Our references

- ✓ Institutions: DREAL, Région PACA, OSEO Innovation, DIREN
- ✓ Nuclear industry: EDF, CEA, AREVA NC, IRSN, CERCA LEA, MELOX, Pearl SAS, EICHROM, MIRION, ALGADE
- ✓ Steel industry and Process : ARCELOR, UGINE, SLN, SEPR, Moteurs Baudouin
- ✓ Chemistry and petrochemical industry: TOTAL, LYON DELL BASELL, NAPHTACHIMIE, GEOGAZ, Couronnaise de raffinage
- ✓ Aeronautic and defence: Airbus Helicopters, MARINE NATIONALE, DGA, DCNS Toulon, MANOIR Industries, MBDA, AIA Ambérieu et Cuers
- ✓ Electronics: GEMPLUS, STM, THERMATECH, ST Microelectronics
- ✓ Medical biology: French Anti-Doping Laboratory, AP-HP, AP-HM, HCL, Bioqualité, Sambourg laboratory, Biosanté, LABM du CEA Cadarache et EDF LAM, PAX Laboratory, Hospitals of Valenciennes, Bastia et Bassin de Thau, CH Aubagne, CH Nîmes, Institut PASTEUR de Madagascar, CH Toulon,...
- ✓ Medical: INTERVASCULAR, French Establishment of Blood (EFS)
- ✓ Pharmaceutics, Cosmetics: THERABEL, PHARMA BIOTECH, BIO VETO TEST, THALGO, ROXLOR, SANOFI Aventis, ARKOPHARMA, BIOMERIEUX, IPSEN
- ✓ Food industry: COCA COLA, GRAINES GAUTIER, LABORATORIZ, Bretagne PLANTS, ROYAL CANIN, Grocep, NESTLE
- ✓ Oenology: PHILIS laboratory, CIVAM VITI, DEJEAN laboratory, ...
- ✓ Other laboratories: Common Service Laboratories, National Institute of Scientific Police, GUIGUES, LHMA, LVD, LDA, LARA,, ATS, KEYBIO, CETE, Laboratory of Hydrology of Marseille
- ✓ Environnemental laboratories: CARSO, AIRFOBEP, AIR LANGUEDOC ROUSSILLON, PROTEC, PRONETEC, INERIS, Society of the Waters of Marseille, Canal of Provence, SAUR, Chemical laboratories of waters of Besançon, Bacter Environnement
- ✓ Research: INRA, CNRS, IRD, CIRAD, IRSTEA (CEMAGREF)
- ✓ Metrology: MESURA ENGINEERING, SADEPAL, CAMOM, EM, CAPI, CCRM, IMQ, AXEO – LYONNAISE DES EAUX, MATEN
- ✓ Others: Provence University Saint-Jérôme, CRTA Avignon, IUT Mesures Physiques de Marseille, ENSAM