

Prénom NOM :

Laboratoire :

Directeur de thèse :

Etablissement d'inscription :

LIVRET DU DOCTORANT



Université Bretagne Loire (UBL), Université de Bretagne Occidentale (UBO) and the Marine and Coastal Sciences Doctoral School (EDSML) offer a selection of training, complementary to your scientific work, to help you pursue your career.

The aim of the training offered by the Doctoral School (DS) is to help prepare your professional future in academic, scientific and socio-economic fields. With this objective in mind, we provide a wide variety of training courses allowing you to build a training path according to your own personal and vocational projects.

Within EDSML, the training offer is divided into two modules. The first module consists of compulsory training on research ethics and scientific integrity, teacher training (for those of you with teaching commitments) and participation in the EDSML PhD Students' Day. The second module consists of the vocational project, which offers a wide choice of training (you can also follow courses outside of this framework). In all, you will need to obtain 100 course credit hours during your PhD in order to defend your thesis.

Registration for these courses is done through the UBL catalogue of transversal courses.

In addition, via its mailing list, EDSML regularly sends information and other opportunities to accumulate course credit hours.

We also invite you to sign, and have your supervisor(s) sign the UBL Doctoral Charter, read the EDSML Rules of Procedure, complete and have your Training Agreement signed and constitute your Individual PhD Supervisory Committee.

With our best wishes for success in your PhD.

Directorate of the Marine and Coastal Sciences
Doctoral School

DOCTORATE CHARTER

This charter, to which the training agreement is appended, is signed by the doctoral researcher and the thesis supervisor(s), approved by the Doctoral School and the institution, and then kept by the doctoral school. Copies in electronic format are given to the doctoral researcher, the thesis supervisor(s), the institution of enrolment and the Université Bretagne Loire School of Doctors.*

** Here and throughout the text, thesis supervisor(s) is used to mean the thesis supervisor, in some cases in partnership with the co-supervisor(s), in accordance with the first paragraph of Article 16 of the Order of 25 May 2016 establishing the French national training framework and the terms of award of the national doctorate degree.*

The preparation of a thesis is based on the double agreement freely entered into between the doctoral researcher and the thesis supervisor(s) on the one hand, and between the latter and the director of the research unit on the other. This agreement concerns the choice of subject and the working conditions necessary for the research to progress. The thesis supervisor(s) and doctoral candidate therefore have a very demanding set of respective rights and duties.

This charter defines these reciprocal commitments while providing a reminder of the ethics behind the regulations in force and the practices already experienced while respecting the diversity of the subject areas and institutions. Its aim is to guarantee a high level of scientific quality. The doctoral researcher's institution of enrolment undertakes to act to ensure that the principles that it sets out are upheld.

This charter is approved by the director of the doctoral school, the director of the unit or the host research team, and the thesis supervisor(s). It is signed by the doctoral researcher and the thesis supervisor(s) when the doctoral researcher first enrolls and is approved by the doctoral school and the institution of enrolment.

1. THE THESIS, A STAGE IN A PERSONAL AND PROFESSIONAL PLAN

The preparation of a thesis is both a professional experience and an education in and through research. This plan must be clearly defined by the doctoral researcher and must be in keeping with their host unit's areas of development. This preparation requires clarity in the objectives pursued and the means used to achieve them.

The candidate must receive information on academic and extra-academic opportunities in their field. To this end, statistics on the career development of doctors trained at their host unit and their future doctoral school must be provided by the latter before the candidate enrolls.

The thesis supervisor(s) and the director of the doctoral school (or the deputy director of the site) must inform the candidate before enrolment of the resources available to help with the preparation of their thesis (different types of allowances, budgets that will be allocated by the unit for the development of the thesis, etc.).

To carry out their research properly, the doctoral researcher must have access to sufficient resources. For a full-time thesis, a level of funding comparable to that obtained by a doctoral contract must be sought, and priority must be given to funding in the form of employment contracts lasting at least three years following the date of enrolment on the thesis.

If the doctoral researcher's resources come from a professional activity not directly related to the thesis (e.g. teaching or liberal profession), it will be necessary to ensure that this activity gives them sufficient time to successfully complete the thesis on a part-time basis within a period of up to six years.

The doctoral school reserves the option to require a minimum level of resources before a candidate can enrol on a thesis.

Where a three-year funding plan exists, it is set up when the candidate first enrolls and appended to this charter. The research work entrusted to the doctoral researcher must be compatible with the duration of funding provision.

The doctoral candidate and the thesis supervisor(s) must comply with the internal rules of their doctoral school, which includes the rules governing thesis enrolment, monitoring of doctoral researchers, training that doctoral researchers must receive, conditions of authorisation for the thesis defense and reproduction of the thesis, and the various arrangements for settling any conflicts that may arise between the doctoral researcher and their thesis supervisor(s).

In order to broaden their field of competence and knowledge of a range of subjects, and in order to facilitate their future occupational integration, the doctoral researcher must take a minimum of 100 hours of training or an equivalent activity while preparing their thesis, which must be validated by the doctoral school.

This amount of hours and the balance between cross-curricular and subject-based education shall be adjusted according to the specificities of the thesis being prepared and the doctoral researcher's project.

Vocational training (cross-curricular/complementary) as well as language courses (French and English) and education in research ethics and scientific integrity are available at the Université Bretagne Loire School of Doctors and the Doctoral Colleges of the site. The doctoral school offers subject-based education.

Exceptionally, in particular for co-supervised theses, those under CIFRE agreements (Industrial Agreements for Training through Research) and doctoral researchers in paid employment unrelated to the thesis work, in response to a justified request countersigned by the thesis supervisor(s), the director of the doctoral school (or the deputy director of the site) can exempt a doctoral researcher from having to take all or part of the courses during the thesis.

Each doctoral researcher, while respecting the above rules, is free to choose their training programme and their thesis supervisor(s) are responsible for ensuring that the choices made are appropriate when a doctoral researcher chooses a course outside of those offered by the doctoral school, the school of doctors and the doctoral colleges of the sites.

A list of the courses taken, drawn up by the doctoral researcher and validated by the doctoral school, is included in the portfolio set out by the national regulations. This may be requested by the institution of enrolment before granting permission for the thesis defense.

At the same time, it is incumbent on the doctoral researcher, with the support of the team supervising the thesis, on the doctoral school to which the researcher belongs and on the institution of enrolment, to take an early interest in the doctoral researcher's occupational integration by contacting their potential future employers (research or R&D laboratories, companies, universities, research centres in France or abroad, etc.). To this end, the doctoral researcher shall whenever possible take part in the various events arranged for the purpose of improving the match between their education and employment prospects.

2. SUBJECT, PREPARATION AND FEASIBILITY OF THE THESIS

The thesis supervisor(s), the institution and the director of the doctoral researcher's host unit must ensure that the proposed thesis subject is in keeping with the host unit's areas of research. The thesis supervisor(s), called upon due to their recognised expertise in the field of research concerned, must identify the innovative nature of the subject in the scientific context and ensure its current relevance.

They must ensure in the definition of the subject that the research work can be completed within a time period consistent with the thesis duration as set out by the current regulations in force (three years for a full-time equivalent devoted to research, or in other cases, the doctorate preparation period may be up to six years).

Extensions can only be granted on an exceptional basis in response to a justified request by the doctoral researcher and the thesis supervisor(s). An extension being accepted shall under no circumstances automatically result in the continuation of the funding that the doctoral researcher may have received, although the option of further assistance may be explored, especially for doctoral researchers encountering social or medical difficulties.

In order to keep to the scheduled timetable, the doctoral researcher and thesis director(s) must honour their commitments. Repeated failure to do so shall be documented in a joint statement by the doctoral researcher and the thesis supervisor(s), which may lead to a mediation procedure.

The supervisor(s) must define and assemble the resources to be implemented in order to enable the work to be done under the right conditions. To this end, the doctoral researcher is fully integrated into their host unit, and where possible they have equal access to the same facilities there as the tenured researchers in order to complete their research work (equipment, resources - IT in particular, documentation, opportunity to attend seminars and conferences). The director of the doctoral researcher's host unit and their thesis supervisor(s) must ensure that the doctoral researcher has the necessary material resources to present their work at scientific meetings, in particular national and international ones.

The thesis supervisor(s) must provide quality supervision and monitoring of the progress of the thesis work, which accounts for a significant amount of their time. The future doctoral researcher must be informed of the number of

theses currently being supervised by the potential thesis supervisor(s) under consideration and the frequency of meetings between the doctoral researcher and their thesis supervisor(s).

The doctoral researcher regularly informs their thesis supervisor(s) about the progress of their thesis and any difficulties encountered.

The doctoral researcher is supported by an individual monitoring committee composed of at least two persons not involved in the thesis and appointed at the time of enrolment by the director of the doctoral school and proposed by the director of the unit. If one of the committee members resigns, he or she is replaced following the same process. The monitoring committee may be convened at the request of the doctoral researcher or the thesis supervisor(s) at any time during the course of the thesis. The individual monitoring committee shall meet at least once a year with the doctoral researcher or, for the first year, shall receive an activity report from the doctoral researcher and evaluate the training conditions and the progress of their research. It then formulates recommendations and a detailed opinion on re-enrolment, which it forwards to the director of the doctoral school, the doctoral researcher and the thesis supervisor(s).

Preparation of the thesis requires the doctoral researcher's enrolment at their institution to be renewed each year. On this occasion, the director of the doctoral school checks that the scientific, material and financial conditions are in place to guarantee that the doctoral researcher's research and thesis preparation work go smoothly.

Re-enrolment applications are accompanied by a report on the progress of the thesis work. This report produced by the doctoral researcher includes the opinions of the thesis (co-)supervisors, the directors of the host unit and the individual monitoring committee. The director of the doctoral school proposes the enrolment for the 2nd or 3rd year to the head of the institution in charge of enrolment as soon as these opinions are favourable. Applications to enrol for the 4th year (and above) as well as disputed cases of enrolment for the 2nd or 3rd year are subject to the favourable opinion of the individual monitoring committee.

If the planned enrolment is not renewed after the thesis supervisor has given their opinion, the doctoral researcher is notified of this opinion and the justification for it by the director of the doctoral school. The doctoral researcher may request a second opinion from the research committee of the academic council or the authority that fulfils this function at the institution in question. Non-renewal decisions are made by the head of the institution, who notifies the doctoral researcher if this is the case.

In accordance with national regulations, exceptionally and in response to a justified request by the doctoral researcher, an indivisible gap period lasting a maximum of one year may be taken once, by decision of the head of the institution where the doctoral researcher is enrolled, after the employer has given their agreement, if applicable, and the thesis supervisor(s) and director of the doctoral school have given their opinion.

3. THE DOCTORAL RESEARCHER'S PLACE AT THE HOST UNIT: RIGHTS AND DUTIES

As a member of the host unit in their own right, the doctoral researcher is subject to the same rules as all of the research professors and researchers at the unit, especially in the field of publications, communications, invention patents and scientific ethics. They participate in the collective tasks inherent in the unit's scientific life but cannot make up for any inadequacies in the technical supervision provided by the unit or be given tasks outside of their research project. It is the duty of the thesis supervisor(s) and the director of the host unit to explain the doctoral researcher's status precisely to them, as well as the position of the doctoral researcher's scientific project in relation to the activities of the host team. They must also inform the doctoral researcher about how the unit works (statutes, internal regulations, unit council, health and safety conditions) and the representation of doctoral researchers within these authorities.

The doctoral researcher, meanwhile, must commit to a timetable and pace of work consistent with that of their host unit, with the aim of earning the doctorate within the agreed timeframe. They have a duty to inform their thesis supervisor(s) of any difficulties encountered and how their thesis is progressing.

As part of their thesis, the doctoral researcher is encouraged to participate in activities to disseminate the scientific and technical cultures developed at the unit.

The doctoral researcher undertakes to follow the internal regulations of the doctoral school to which they belong, the institution at which they are enrolled and their host unit.

4. THESIS DEFENSE-RELATED ARRANGEMENTS

The practicalities regarding the membership of the jury and the thesis defense, as described in the internal regulations of each doctoral school, must comply with the national regulations in force and be in line with the procedures in place at the establishments that award the national doctorate degree.

5. PUBLICATION AND APPLICATION OF THE THESIS

The quality and impact of the thesis can be measured in particular through publications or patents and industrial reports that will be based on the work, be it the thesis itself or articles written during or after the preparation of the manuscript.

The thesis work shall preferably be published in journals or peer-reviewed publications recognised by the sections of the CNU (National Council of Universities) and the HCERES (High Council for Evaluation of Research and Higher Education). The same shall apply to doctoral researchers' participation in communications at international conferences or filing patents. When the thesis defense dossier is submitted, unless another rule has been set in the internal regulations of the doctoral school, the doctoral researcher is advised to highlight the publication (or acceptance) of at least one publication recognised by the section(s) of the CNU and the HCERES as the main author or sole author.

6. MEDIATION PROCEDURES

Any persistent conflict between the doctoral researcher and the thesis supervisor(s) may be brought to the attention of the director of the unit, who shall endeavour to help the parties to find a solution to the problem. The doctoral researcher, the thesis supervisor(s), or the director of the unit may also contact the director of the doctoral school (or the deputy director of the site), who will call on a mediation group consisting of two members of the doctoral school council, one of whom is a doctoral researcher representative. This group, without divesting anyone of their responsibilities, shall listen to the parties and propose a solution. The mission of the mediation group implies its impartiality. Should this mediation fail, the doctoral researcher, the thesis supervisor(s) or the director of the unit may ask the head of the institution of enrolment to appoint a new mediator. In the event of further failure, a final appeal may be made to the head of the institution of enrolment.

The doctoral school and the institution of enrolment shall keep each other informed of the conclusions of any mediations that they organise.

7. PARTICIPATION IN THE ACTIVITIES OF THE UNIVERSITÉ BRETAGNE LOIRE SCHOOL OF DOCTORS

The doctoral researcher keeps themselves informed of the activities of the Université Bretagne Loire School of Doctors. At the time of their enrolment on the thesis, they commit to giving the Université Bretagne Loire School of Doctors any information necessary for the proper use of the Université Bretagne Loire doctoral database, in particular the information about their occupational integration and professional career, and this for a period of five years after earning their doctorate.

APPENDIX TO THE DOCTORATE CHARTER: TRAINING AGREEMENT

The Order of 25 May 2016 sets out the national training framework and the terms of award of the national doctorate degree. In application of the doctorate charter, this text provides for the implementation of a training agreement with the aim of monitoring the doctoral researcher for the duration of their doctorate.

LAST NAME and first name of the doctoral researcher:

Institution of enrolment:



Doctoral school:



Host unit:

LAST NAME and first name of the director of the host unit:

LAST NAME and first name of the thesis supervisor:

LAST NAME and first name of the first thesis co-supervisor or assistant supervisor:

LAST NAME and first name of the second thesis co-supervisor or assistant supervisor:

Subject of the doctorate:

Brief description of the thesis project:

Degree specialisation:

- Acoustique sous-marine et traitement du signal
- Biologie, Biochimie Cellulaire et Moléculaire
- Biologie des organismes
- Biologie Marine
- Biotechnologies
- Chimie macromoléculaire
- Chimie Marine
- Droit Privé
- Droit Public
- Ecologie Marine
- Génie Côtier
- Génie Electrique et Electronique

- Génie Mécanique, Mécanique des fluides et Energétique
- Géographie
- Géomatique
- Géosciences Marines
- Halieutique
- Microbiologie
- Observation de l'Environnement marin et Traitement de l'Information
- Océanographie, Physique et Environnement
- Sciences Economiques

List of other existing agreements specific to this thesis:

1.a/ Professional status of the doctoral researcher:

- # Employee of the institution:
- # Employee of a research organisation (specify):
- # Employee of a company funding the thesis (specify):
- # Other (specify):

1.b/ Funding conditions of the doctoral researcher:

- # Doctoral contract (employer and net annual salary):
- # CIFRE contract (employer and net annual salary):
- # Employment contract (for the thesis, excluding doctoral contract and CIFRE) (employer, duration and net annual salary):
- # Grant (origin, duration and net annual amount):
- # Other (origin, duration and net annual amount):

1.c/ Basis on which the doctorate is undertaken (full or part-time):

In the case of part-time, specify the activity undertaken alongside the research work (type of activity, weekly duration, etc.):

2/ Research project calendar:

In consultation with the thesis supervisor, the doctoral researcher specifies the intended main stages of their research project:

Year 1:

Year 2:

Year 3:

If the thesis is undertaken on a part-time basis,

Year 4 (if applicable):

Year 5 (if applicable):

Year 6 (if applicable):

3.a/ Terms of supervision and monitoring of the doctoral researcher's training and progress with their research:

By default, the terms of supervision and monitoring of the doctoral researcher's training and progress with their research are determined by the internal regulations of the doctoral school.

Further details may be provided if necessary:

3.b/ Composition of the individual monitoring committee:

LAST NAME, first name, role and institution of the first monitoring committee member:

LAST NAME, first name, role and institution of the second monitoring committee member:

4/ Material conditions for undertaking the research project and security conditions if applicable:

By default, the material conditions for undertaking the research project are determined by the internal regulations of the research unit where the doctoral researcher is undertaking their thesis.

Further details may be provided if necessary:

5/ Terms of integration into the unit or research team:

By default, the terms of integration of the doctoral researcher are determined by the internal regulations of the research unit.

Further details may be provided if necessary:

6/ Career plan of the doctoral researcher (to be completed by the doctoral researcher):

7/ Individual training plan connected with this personal plan (to be completed by the doctoral researcher in consultation with the thesis supervisor(s):

8/ Aims regarding the application of the doctoral researcher's research work: dissemination, publication and confidentiality, and intellectual property rights according to the field of the doctorate programme:

The aim of this article is to specify the terms of dissemination, publication and confidentiality, and intellectual property rights according to the field of the doctorate programme, and the post-thesis use of the data derived from the doctorate thesis.

By default, the rules on intellectual property rights are defined in the agreement between the institution where the doctoral researcher works and any joint supervisory bodies (research organisations, other institution).

By default, the laboratory "notebooks" and other data storage media remain the property of the laboratory and must consequently remain in the laboratories after the thesis has ended.

8.a/ Publications, patents and oral communication (to be completed by the supervisor):

8.b/ Confidentiality required (Yes/no) (to be completed by the supervisor):

If yes, on what grounds:

Funding provider's request:

Other (specify):

Desired duration:

This agreement comes into effect on the date of the doctoral researcher's enrolment and shall come to an end 3 months after the doctoral researcher's thesis defense.

This agreement may be modified if necessary when the annual re-enrolments take place, by the addition of an amendment signed by the parties.

Rules of Procedure of the Marine and Coastal Sciences Doctoral School (EDSML)

Adopted by the Doctoral School Board on 2018-02-12

Reference Texts

- Regarding the Université Bretagne Loire (UBL) Doctoral Charter and Training Agreement signed by the doctoral student and his/her PhD supervisor(s)
- Regarding the Order of 25 May 2016 setting the national training framework and the procedures leading to the awarding of the national doctoral degree
- Regarding the Decree of 23 April 2009 on the doctoral contract
- Regarding the Decree of 6 January 2016 establishing the "Université Bretagne Loire" community of universities and institutions and the approval of its statutes
- Regarding the accreditation and association agreements

Article 1: The Role of the Doctoral School Board

The Doctoral School Board convenes at least twice a year upon the convocation of the head of the Doctoral School (DS), who sets the agendas for the meetings in consultation with the deputy heads. As part of the scientific policies of Université Bretagne Loire (UBL) accredited institutions, the DS Board defines the school's doctoral training policy. Every year it evaluates the different DS reports and approves the DS Rules of Procedure.

The minutes of each meeting are approved by all attendees and circulated to the members of the board, **heads of the accredited and associated institutions, and directors of the affiliated units**. The minutes are also published on the school's website and are, therefore, accessible to all.

Article 2: Role of the Head of the Doctoral School

The head of the DS implements the DS's action programmes and submits an annual activity report to the UBL Academic Board. The UBL president sends this activity report, **including the list of new entrants and those for whom exceptions were made**, to the heads of the accredited institutions.

The head ensures that the DS implements a doctoral student admission policy based on clear and publically available criteria. It also ensures that the DS informs students about access conditions, skills required, available funding, and the nature, quality and rates of employment after obtaining a PhD.

The head of the DS represents the EDSML within the UBL Doctoral School.

The head of the DS is the scientific director: he/she ensures the quality of recruitment and the PhDs defended.

The head of the DS is appointed by the UBL president after joint nomination by the heads of accredited institutions on the proposal of the Doctoral Committee and after consultation with the DS Board, the UBL Academic Board and research commissions of accredited institutions or bodies that have this role. He/she is appointed for the duration of the accreditation of the DS. His/her mandate may be renewed once. In the event that the directorship becomes vacant during the term of the contract, a new head is appointed following the same appointment process. This appointment is made as soon as possible, within one year of the directorship becoming vacant. To ensure interim management, one of the deputy heads is appointed provisional head by the UBL president, on the proposal of the Doctoral Committee.

Article 3: Role of the Doctoral School Deputy Heads

The deputy heads assist the head on each DS site. For the benefit of the doctoral students, the head of the DS may, in accordance with national regulations and subject to the agreement of the heads of the accredited institutions, delegate all or part of his/her management prerogatives to the deputy heads on site. They represent the school in the site's doctoral colleges. They host a site commission on each DS site, if there is one.

DS deputy heads are appointed by the UBL president after joint nomination by the heads of the accredited institutions on the proposal of the Doctoral Committee and after consultation the DS board, the UBL Academic Board and research commissions of accredited institutions, or bodies that have this role. The deputy heads are appointed for the duration of the accreditation of the DS. Their mandates may be renewed once. In the event that

a deputy head position becomes vacant during the term of a contract, a new deputy head is appointed following the same appointment process.

Deputy heads serve as experts, giving their opinions on:

- Master degree exemption requests required by the Order of
 - Enrolment applications at the DS (as defined in the rules of procedure)
 - Requests for Validation of Acquired Experience to obtain a PhD
 - Gap year requests
 - Requests for exemption from additional enrolment on the PhD programme
 - Proposals for the choice of PhD thesis evaluators and the composition of PhD defence juries
- They are the on-site representatives of the DS for all PhD students and PhD supervisors. They assess problematic re-enrolment situations and advise the DS Board.

Article 4: Doctoral School Authorities

The DS has a Board provided for in the national regulations, a Bureau and the EDSML Doctoral Commission. The head may propose to the DS Board to create site commissions or other commissions to ensure day-to-day management.

Article 4.1: Composition of the Doctoral School Board

The DS Board has 26 members, plus the school head and deputy heads if they are not members. The DS Board is chaired by the DS head.

These members are divided into 4 colleges as follows:

- 14 members who are representatives of the institutions, units or research teams concerned;
- 2 representatives of the engineering, administrative or technical staff;
- 5 doctoral students elected from and by doctoral students enrolled in the DS (multidisciplinary representation);
- 5 members from outside the DS chosen among experts qualified in the scientific fields and socio-economic sectors concerned.

The DS head or his/her representative is a standing invitee of the DS Board.

Subject to the agreement of the supervisory boards of the accredited institutions, the election and appointment of Board members follows the following principles. The appointment of the members of the first two colleges will be made by the UBL Doctoral Committee. The third college, made up of DS doctoral students elects members according to a system that elects a single winning list of names in one round of voting. The appointment of external members will be made by the UBL Doctoral Committee on the proposal of the members of the first three colleges of the DS Board.

Each Board member is appointed for the duration of the accreditation. Their term may be renewed once and they leave the Board when they no longer hold the position that entitles them to occupy a seat there. The above nomination or election rules apply to fill seats that become vacant during the course of the contract.

Article 4.2: Doctoral School Bureau

The DS Bureau includes its head and deputy heads, along with any invitees chosen for their particular skills. In particular, the Bureau prepares DS action programmes and Board meetings. Members of the DS Bureau prepare the DS Board meetings and take part in them but do not have the right to vote if they are not members of the Board.

The head may propose to the DS Board to create site commissions or other commissions to ensure day-to-day management.

Article 4.3: Doctoral Commission

The mission of the DS Doctoral Commission is to examine, at the DS head's request, enrolment applications for the DS (academic quality of future doctoral students, meeting funding conditions, and quality of PhD project supervision) and the requests for PhD defence (scientific evaluation of the work, opinion on the choice of evaluators and the proposition of jury members).

Composition:

This Commission is chaired by the DS head and the site deputy heads (DS Bureau), who are ex-officio members. It is organised into 4 sub-commissions according to the disciplinary field of attachment of the PhD. (Life Sciences, Sciences of the Universe, Humanities and Social Sciences, Engineering Sciences and Techniques). The composition of these commissions and the list of members established by the Bureau are available on the EDSML website.

In addition to the Doctoral Commission, expert advisors can be invited by members of the DS Bureau according to subject, PhD topic and field concerned.

Missions:

The purpose of the Doctoral Commission, organised in 4 sub-commissions by field, is to contribute to the competitive recruitment tests for future doctoral students, (academic quality of a future doctoral student, motivations and capacities for the PhD project).

The commission and the experts in the field help the head and deputy head examine applications for enrolment and re-enrolment at the DS.

The commission and the experts in the field help the head and deputy head examine defence applications: scientific evaluation of the work, advice on the choice of thesis evaluators and the proposal of jury members.

Article 4.4: Transitional Provisions

The DS provisional management team appointed to prepare the establishment of the DS will continue in these organisational and decision-making functions during the 3 months between the beginning of the accreditation and the establishment of the DS Board. During this period it will play the role of the DS Bureau. Once the DS Board has been established, the heads and deputy heads will be confirmed in their role, subject to the assent of the DS Board.

Article 5: Affiliation of Units, Teams and HDR Researchers (accredited for PhD supervision) to the Doctoral School

In the first quarter of each calendar year, each Unit Director and director of DS-affiliated teams will provide the school head with an exhaustive member list specifying: first and last name, position (lecturer-researcher, professor, researcher or research director), whether they have the HDR or *thèse d'état*, unit (laboratory, team or department), affiliated research unit, when this exists, and affiliated institution. Teams should only belong to more than one DS in exceptional cases and only with the agreement of the director of the unit and the DS heads concerned.

This list of lecturer-researchers and researchers who are members of the DS is publically available on the school's website.

At EDSML, although a team can, exceptionally, be in two DSs, an HDR researcher can only be a member of one DS. This membership of a single DS by an HDR researcher does not of course prevent them from co-supervising PhDs in other DSs.

Article 6: Determining the Enrolment Institution of a Doctoral Student

The institution accredited with the enrolment and awarding of the doctorate is linked to the source of the funding, host unit, institution offering the specialty, or possibly the location of the unit team in which doctoral students carry out their research work. In the case of a partnership with jointly awarded diplomas, the doctoral student will be enrolled in the associated institution or in the PhD supervisor's home institution.

Article 7: Financial Resources of PhD Students

The PhD supervisor(s), research unit director and head or deputy head of the DS ensure that each doctoral student registered to do a PhD has sufficient resources to complete that PhD. For a full-time PhD, a level of funding comparable to that of a doctoral contract must be sought, and priority must be given to funding in the form of employment contracts for a period of at least 3 years following PhD enrolment. When the doctoral student's resources come from a professional activity that is not directly related to the PhD (e.g. teaching or an independent profession), then it must be ensured that this activity leaves them with adequate time to complete the PhD properly on a part-time basis over a maximum of six years.

The general rule at EDSML is that PhD enrolment is conditional on monthly funding that is at least equal to the minimum wage, during the entire period that the doctoral student is enrolled on the PhD and stays in France. An official attestation confirming funding over the three years of the PhD is required at enrolment. For stays abroad, adequate funding must be provided to the doctoral student.

In the event of a retraction of the funding organisation during the PhD – and if the student is not responsible for this – the laboratory and the PhD supervisor undertake to look for other resources to finish the PhD.

In special cases, particularly for some foreign PhD students, exceptions may be requested. They must be solidly argued and accepted by the DS Bureau. Any exception requests will take into account the practices specific to each research field and the personal situation of the doctoral student.

According to the UBL Doctoral Charter, the laboratories undertake to provide the necessary means to carry out the work planned. They guarantee the necessary conditions for the completion of the PhD. The PhD supervisor and the research unit make every effort to ensure funding until the end of the PhD, on the condition that any delay is related to difficulties beyond the doctoral student's control. Severance pay cannot be considered as a form of PhD funding.

Article 8: Selection Procedure for PhD Students

The institutions mandate the DS Board to implement an open, readable and fair procedure for the selection of candidates wishing to do a PhD, based on the following rules.

Each PhD subject gets the widest possible publicity by publication on dedicated sites, including *Thèse en Bretagne-Loire*.

EDSML organises a recruitment competition involving all the sites, institutions, research units and disciplines. This competition aims to select the best candidates for each of the subjects proposed. If a recruitment competition is unfruitful, the subject may be reopened for candidature and the competition repeated.

The selection procedure includes an interview between the candidate (possibly by videoconference) and the Ad Hoc PhD Sub-commission(s), DS head and deputy head of the site concerned.

When a candidate has been selected for a PhD project by a funding body, he/she is also interviewed, or their dossier examined, by the Ad Hoc PhD Sub-commission(s), or by an expert appointed by the DS, in order to ensure the quality of the subject, supervision rate of the PhD supervisor(s), academic level of the candidate and funding conditions.

Article 9: Composition and Functioning of the Individual PhD Supervisory Committee

In accordance with the EDSML Doctoral Charter and Rules of Procedure, each doctoral student and his/her supervisor(s) must set up an Individual PhD Supervisory Committee within 3 months of enrolment.

Evaluation of the progress of the PhD work will be made through this Individual PhD Supervisory Committee, which will include at least two people not involved in the PhD and from outside the research unit, including one from outside the enrolment institution. These members are jointly proposed by the PhD supervisor(s) and the PhD student, and then validated by the Unit Director and the DS site's deputy head. The Individual PhD Supervisory Committee is constituted within 3 months of the start of the PhD and its composition is communicated to the DS. The PhD supervisor and co-supervisor and other supporting staff participate in the Individual PhD Supervisory Committee.

Exceptionally, at the request of the PhD supervisor, and after agreement of the DS deputy head, an activity report written by the doctoral student and signed by the supervisor may replace the formal meeting of the Individual PhD Supervisory Committee in the first year.

The Individual PhD Supervisory Committee meets at least once a year and gives its opinion on re-enrolment. In addition, the Individual PhD Supervisory Committee may be convened upon request of the doctoral student, (co)supervisor of the PhD, or the DS directorate, at any time during the PhD.

The meeting of the Individual PhD Supervisory Committee is based on an activity report provided by the doctoral student and leads to an Individual PhD Supervisory Committee report. The DS provides a standard document template. Exceptionally, at the request of the PhD supervisor, and after agreement of the DS deputy head, an activity report written by the doctoral student and signed by the supervisor may replace the formal meeting of the Individual PhD Supervisory Committee in the first year.

The Committee examines and discusses the advances and questions raised by the PhD student's research. It also assesses the PhD student's training conditions and hosting. For this part, the doctoral student must be interviewed individually in the absence of their supervisors.

At each meeting, a session evaluator is appointed; he/she transmits the Individual PhD Supervisory Committee report to the PhD student, the PhD supervisor, and the DS site, using the standard document template provided by the DS. For each re-enrolment, the Individual PhD Supervisory Committee must give its opinion (favourable or unfavourable) on whether the work should be continued.

Article 10: Annual Enrolments for PhD Students

At the end of the selection process described in Article 8, enrolment in the first year is decided by the head of the accredited institution on the proposal of the DS head or deputy head by delegation, after consultation with the PhD supervisor and the director of the unit or research team. Enrolment in the first year of the PhD programme depends on the quality of previous academic results and on having funding for the PhD as described in Article 7.

Working towards a PhD involves an annual renewal of the doctoral student's enrolment in his/her institution. On this occasion, the DS head, or deputy head by delegation, verifies that the scientific, material and financial conditions are ensured to guarantee the good progress of the doctoral student's research work and thesis preparation.

Applications for re-enrolment are accompanied by:

- The doctoral student's report on the progress of his/her PhD work (this report may be the one presented to the Individual PhD Supervisory Committee or the funding body). This report, written by the doctoral student, includes the opinions of the PhD (co-)supervisors and the director of the host unit.
- The report of the Individual PhD Supervisory Committee, which gives its approval (or not) for the continuation of the work.

The DS head, or deputy head by delegation, recommends to the head of the institution in which the student is enrolled, that the student be enrolled in the 2nd or 3rd year once these opinions are favourable. Requests for exceptional enrolment in a 4th year (and beyond) as well as disputed cases of enrolment (unfavourable opinion of the Individual PhD Supervisory Committee or PhD supervisor(s)) in the 2nd or 3rd year are subject to arbitration by the DS Board.

Site deputy heads send an annual summary of enrolments and re-enrolments to the DS Head.

Article 11: PhD (Co)supervision

A PhD is supervised by a PhD supervisor, with up to two co-supervisors in addition.

A PhD can only be (co)supervised by a researcher with an HDR, except if the research commission of the institution in which the student is enrolled decides to grant an exception at the request of the interested party.

Besides exceptions approved by the DS Bureau, the maximum number of doctoral students under the responsibility of the same PhD (co)supervisor is 3, equivalent to 100% full-time equivalents (FTE) in Life Sciences, Sciences of the Universe and Engineering Sciences and Techniques, and 5, equivalent to 100% FTE in Humanities and Social Sciences.

When co-supervision is provided by non-academics from the socio-economic sector, the number of co-supervisors can be increased to two.

At least fifty per cent of the (co)supervision of a doctoral student at the DS must be provided by members of the DS, except in cases that have been duly argued and accepted by the DS directorate.

To encourage researchers to obtain an HDR, on the recommendation of the PhD supervisor, EDSML attributes the title of "supervisor" to lecturer-researchers or non-HDR-accredited researchers who make a significant contribution to PhD supervision. These researchers are identified during PhD enrolment and cannot co-supervise more than 2 students simultaneously. At the end of the PhD, co-supervisors receive a PhD co-supervision certificate from the DS as proof of their investment.

Article 12: Training

EDSML offers training activities promoting interdisciplinarity and the acquisition of a broader scientific culture including knowledge of the international research framework. The courses are organised and offered jointly by the UBL doctoral school, EDSML and services of the co-accredited institutions.

Doctoral students must complete at least 100 course credit hours of training or equivalent during their PhD work; these hours of training must be completed before the end of the 3rd year of the PhD.

Each doctoral student is responsible for the organisation of his/her training, and his/her PhD supervisors ensure the relevance of the choices made, especially when selected courses are outside the scope of the DS or doctoral colleges of the sites.

The following principles should be taken into account.

- Every doctoral student must follow a training course in research ethics and scientific integrity.
- Teacher training must be followed when it contributes to the doctoral student's activity or vocational project. Any doctoral student who teaches within the framework of an extended doctoral contract must include a teacher training course in his/her training programme.
- Courses other than those presented in the common EDSML doctoral student training catalogue may be validated subject to the agreement of the site's deputy head and/or the DS head, on presentation of an attestation indicating the name of the training course followed and the number of hours and signed by the training course organiser. To promote the diversity of training, the number of hours validated for each training course can not exceed 30 hours.
- Training courses followed are not validated by a final exam, but by a certificate of attendance.
- The Doctoral Student Training Agreement lists all the courses followed by the doctoral student. It presents the practical arrangements of the training course and its validation procedures. The doctoral student must regularly update it; it is presented and approved by the site's EDSML management secretariat during re-enrolment in the 2nd and 3rd years of the PhD, and is given to the DS to obtain authorisation to defend.

- A review of the evaluation of field-specific and transversal training is made with a quality assurance approach to improve the training offer.
- The PhD student is responsible for completing and updating his/her Portfolio. This PhD student's Portfolio includes a personalised list of all activities carried out during his/her training, including teaching, dissemination of scientific culture or technology transfer, and promoting the skills acquired during the PhD work. It is updated regularly by the PhD student.
- PhD students with special situations (cotutelle, CIFRE contract, employee not funded for the PhD) may benefit, by request and justified by the site's deputy head and/or the EDSML head, from an adjustment of the hours of training. All requests will be examined on a case-by-case basis. This could be, for example, the validation of training courses taken abroad, or within a company, or the professional experience of a doctoral student not funded for the PhD.

EDSML also organises scientific exchanges between PhD students and the scientific community. Each year, subject to obtaining sufficient financial support from tutelage, doctoral students beginning their 3rd year must present their work to the entire scientific community, during EDSML PhD Students' days. This presentation may take the form of an oral communication or a poster.

Article 13: PhD Defence

Article 13.1: Evaluators and PhD Jury (Order of 25 May 2016) (excluding co-supervision)

In addition to the rules described in the Order of 25 May 2016 setting the national training framework and the procedures for awarding the national doctoral degree, the following conditions also apply, except in cases duly argued and accepted by the DS:

- The evaluators:

Unless the disciplinary field or the content of the work does not allow it, evaluators are external to the DS, and in all cases external to the enrolment institution in which the PhD work was done (including the institution, unit, laboratory, team or business of the (co)supervisors and other trainers). They must not have participated in the PhD work, in the Individual PhD Supervisory Committee, or have any conflicts of interest.

- The jury:

Jury members are chosen according to their scientific or professional competence in the PhD field of research.

The jury must include at least one representative from the university or institution of enrolment (institution, unit, laboratory or team).

The composition of the jury must have a full gender balance. If this is not possible, the PhD supervisor must certify that this balance was sought.

At least half of the jury must be external to the enrolment institution, DS research units, and any companies involved in the PhD. It is customary for evaluators to be members of the PhD jury, but this is not an obligation.

At least half of the jury must be university professors or of equivalent rank.

Article 13.2: Application for Authorisation to Defend a PhD

When a doctoral student and his/her PhD supervisor(s) consider that the work is ready to be defended, the PhD supervisor transmits the choice of evaluators and a jury proposal, the opinions of the Individual PhD Supervisory Committee since the beginning of the PhD, the list of his/her publications and the list of courses followed to the DS.

EDSML requires the student to have at least one international publication or oral communication that has been validated through a peer review process.

The choice of evaluators and composition of the jury are proposed to the DS head, or the deputy head by delegation, (in accordance with the Order of 25 May 2016) for validation by the director of the institution where the student is enrolled.

Prior to this, if the PhD subject falls outside the disciplinary field of the site's deputy head and DS head, an expert from the DS Doctoral Committee is called upon to ensure that the proposals are in line with the PhD subject.

Article 13.3: Recourse to the Doctoral Commission

In the event of disagreement over the appointment of the evaluators, the composition of the jury or the authorisation of the defence, the dossier is examined by the DS Doctoral Commission in agreement with the PhD (co)supervisor(s).

Article 14: Co-accredited and Affiliated Institutions and Jointly-Awarded Degrees

The institutions ensure the implementation of the DS's orientations.

They ensure the conformity of doctoral student dossiers submitted to the DS, where the scientific management of all of the DS's doctoral student dossiers is carried out.

Article 15: Mediation

In the event of a major conflict between the doctoral student and the PhD supervisor(s), a mediation procedure is set up according to the terms of the Doctoral Charter signed at the beginning of the PhD.

At the request of one of the parties, the composition of the Mediation Commission may be extended to include, for example, a representative of the employer. In addition, the doctoral student may be assisted by a person of his/her choice.

Article 16: Career Monitoring

The DS ensures, in cooperation with the UBL Observatory, a mission of monitoring the professional integration of qualified PhD Doctors and PhD students it has hosted.

Each doctoral student undertakes during their PhD enrolment to give the UBL Doctoral School all the information necessary to ensure the sound use of the UBL doctoral database, in particular the information concerning his/her integration and career path for a period of five years after obtaining his/her doctorate.

Article 17: Mailing List

PhD students are requested to register on the DS mailing lists and with the doctoral college they belong to and the UBL Doctoral School, using an email address they regularly consult and to inform the DS by email of any changes to this address.

Article 18: Website

The DS website is used for the school's internal and external communication. In particular, the following are published: reference texts, these rules of procedure, organisation chart of the school, list of the school's researchers and lecturer-researchers with their supervision rates, meeting minutes, results of recruitment campaigns for PhD students, practical arrangements of complementary training, description of each stage of a PhD and the school's contact details.

Article 19: Amendments to the Rules of Procedure

These Rules of Procedure can be amended by the DS Board on proposal of the DS Bureau and after agreement of the Board of the UBL Doctoral School.

Article 20: Documentation Available to Users on the DS Website

Users can access accompanying documentation on the EDSML website.

- PhD supervisor's guide.
- PhD funding: procedures and application.
- Standard document templates for all stages of the PhD: enrolment, re-enrolment, annual report, Individual PhD Supervisory Committee, doctoral student's booklet, choice of evaluators, PhD juries, manuscript submission.
- PhD defence formalities: a guide to the PhD jury for the admin-phobic.
-

Composition of the Individual PhD Supervisory Committee:

In accordance with the doctoral student's charter and the internal regulations of the Ecole Doctorale des Sciences de la Mer et du Littoral, each doctoral student and his/her supervisor must set up an individual monitoring committee.

The evaluation of the progress of the thesis work will be done through an individual monitoring committee. This committee will include two persons not involved in the thesis and appointed by the director of the ED upon proposal of the director of the unit and the thesis director, at least two experts from outside the laboratory and the supervision, including at least one from outside the EDSML, and the thesis supervisor(s). It is constituted at the beginning of the thesis and its composition is communicated to the ED.

The evaluation may take the form of a meeting every year, based on the activity report sent to the Committee. On this occasion, the committee will evaluate the conditions of the training and the progress of the doctoral student's research. It will formulate recommendations and an opinion on re-registration and will send a report to the director of the ED, the doctoral student and the thesis director.

The report(s) of the individual follow-up committee is (are) transmitted with the annual progress report requested for the re-registration each year. The individual monitoring committee transmits its opinion on the re-registration through this report.

During the committee meeting, the doctoral student must be interviewed individually by the external members only (in accordance with the decree of May 25, 2016). The report is signed by all the committee members and is sent to the EDSML by the doctoral student when he/she is re-enrolled.

NAME OF DOCTORAL STUDENT

Research Unit

Members of the individual follow-up committee

Two experts from outside the laboratory and the supervision of which at least one is external to the EDSML

Nom - Prénom	
Qualité	
Adresse :	
	
	@
Nom - Prénom	
Qualité	
Adresse :	
	
	@

The thesis director and the co-supervisor participate in the ISC.

Indicate here their name and quality

Nom Prénom Directeur de thèse HDR, co encadrant scientifique

-		<input type="checkbox"/>	<input type="checkbox"/>
-		<input type="checkbox"/>	<input type="checkbox"/>
-		<input type="checkbox"/>	<input type="checkbox"/>
-		<input type="checkbox"/>	<input type="checkbox"/>

Internal members of the individual follow-up committee: the director of the research unit or his representative, the thesis referent of the research unit, the representative of the partner company

Nom - Prénom	
Qualité	
Adresse :	
	
	@
Nom - Prénom	
Qualité	
Adresse :	
	
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Nom - Prénom	
Qualité	
Adresse :	
	
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Nom - Prénom	
Qualité	
Adresse :	
	
	@

The present agreement takes effect on the date of registration of the PhD student and will end 3 months after the PhD student's defense.

The present agreement can be modified if necessary, at the time of the annual re-enrolments, by an amendment signed by both parties.

COMMITMENT - Doctoral Charter - Training Agreement - Composition of the ISC

The undersigned

The doctoral student :

The thesis director(s) :

declare that they have read the doctoral charter and the training agreement and agree to all the proposals made therein.

Translated with www.DeepL.com/Translator (free version)

Signatures

Le doctorant (lieu et date, nom et prénom)	Directeur(s) de thèse (ou co encadrant(s) (lieu(x) et date(x), nom(s) et prénom(s)) :
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Directeur de l'Unité de recherche d'accueil (lieu et date, nom et prénom :

Visas

Visa de l'Ecole Doctorale Le Directrice 	Visa de l'établissement d'inscription Le Président de l'Université ou Le Directeur d'Etablissement
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Training for PhD students

"This course credit hour requirement and the balance between transversal training and training in specific fields will be adapted according to the specialties of the PhD and the PhD student's project."
Extract from the Doctoral Charter.

Principles of training

Each doctoral student enrolled in the EDSML must follow professional training (transversal/complementary), language courses (French and English) and training in research ethics and scientific integrity during the preparation of his/her doctorate.

Within the framework of the EDSML, the volume of these training courses is expressed in credit hours. The doctoral student's training obligations are distributed as follows

100 hours during the preparation of the thesis for defense authorization, and if the doctoral student has a course load, he/she is obliged to follow a pedagogy training

The doctoral student is obliged to follow a training course on research ethics and scientific integrity and to make a presentation at the doctoral students' day.

(These training sessions are mandatory but do not count as credit hours)

A doctoral student who has not fulfilled the above obligations will not be allowed to defend his/her thesis. Thesis directors must ensure that their doctoral students take these steps.

The validation of a training course is not sanctioned by the corresponding exams but by a certificate of attendance. The doctoral student is autonomous in the organization and choice of courses.

The validation of training courses is done via the AMETHIS V3 application.

To obtain a summary of the training courses taken, you can print the summary of validated training courses on this server.

For interventions outside this framework, go to the AMETHIS menu and select "training requests for equivalence". Fill in the different sections and submit your proof(s) (certificate from the training organizer which must show the dates, place, content, hourly volume of the training you have attended).

The training courses are validated by the EDSML.

For doctoral students with a particular situation (co-supervision, employees not financed for their thesis, ...), the hourly volume of the training courses followed may be examined individually. (cf. internal regulation of the ED). The list of training courses is open to other proposals, in particular for doctoral students doing their work in a geographically distant institution. These proposals must be approved by the director or the deputy director of the Doctoral School.

Some details: Some courses are in high demand, so be sure to register early if you are interested.

To register : <https://amethis.doctorat-bretagne.fr/amethis-client/>

The disciplinary trainings of the ED are proposed to you via the EDSML mailing list and are also managed (except exception) in the Amethis catalog. The EDSML secretariat informs you via the mailing lists.

If you do not receive the messages sent to PhD students : contact the ED : edsml@univ-brest.fr. Using the *doctorants-EDSML* mailing list, the EDSML secretariat keeps students informed about the training courses set up on an ad hoc basis and records participants signed up for the available places.

If you wish to receive messages circulated to PhD students please contact the DS at: edsml@univ-brest.fr

GRADING SCALE and COURSE VALIDATION

Mandatory training

Training in research ethics and scientific integrity

Teacher training (compulsory for students with teaching commitments)

Presentation of a poster or talk at the PhD Students' Day (compulsory in the 3rd year)

Formations disciplinaires de l'EDSML et barème de validation

Intitulé Formation	organisateur	intervenant	Lieu de la formation	valorisation EDSML
Cytométrie en flux	EDSML - site de Brest	site de Brest : C. Lambert (UBO)	Brest	3 h
Techniques de microscopie électronique	EDSML - site de Brest	site de Brest : C. Lambert (UBO)	Brest	3 h
Autoanalyse de sels nutritifs	EDSML - site de Brest	E. Grosteffan (UBO)	Brest	20 h
Ecologie : bases de données spatiales	EDSML	J. Guitton (Agrocampus)	Brest et Nantes en fonction des inscrits	20 h
	Agrocampus	J. Guitton (Agrocampus)	Rennes	20 h
BAILLERON : stage de 4 jours sur les variations climatiques (échelles temporelles et spatiales, implications pour les côtes et notion d'Aléas, Risques et enjeux)	EDSML	Agnès Balzer (Univ Nantes)	Ile de Bailleron (Golfe du Morbihan)	20 h
Formations modélisation numérique atmosphère et océan	EDSML / formation nationale	Guillaume Roulet	Site différent chaque année (Grenoble, Paris, Brest)	20 h
Data science for geosciences	EDSML / EDmathSTICC / formation nationale	Ronan Fablet, IMTA	Site différent chaque année (Grenoble, Brest, ...)	20 h
Mesure non destructive de la photosynthèse : la fluorescence de la chlorophylle	EDSML	B Schoefs	Le Mans	x h
Sciences et Société : animation d'une équipe transdisciplinaire	EDSML Brest	IUEM - UMS : Riwallen RUAULT	Brest, Lorient-Vannes,	30 h
Innovations numériques ex : création d'un poster "capsule"	EDSML Brest	IUEM - UMS : Riwallen RUAULT	Brest	5 h
Actu des publis - article de la discipline du doct. - article dans une autre discipline	Activité suspendue depuis 2021	partenariat l'IUEM et la Bibliothèque La Pérouse	Brest	(1 seule fois au cours de la thèse)
				15 h 20 h

Exemples de formation hors catalogue et barème de validation

Intitulé Formation	organisateur	Lieu de la formation	valorisation EDSML
Modules de Master, Sciences de la Mer et du Littoral (IUEM) - contact : david.graindorge@univ-brest.fr Modules de Master, Toxicologie et Ecotoxicologie à l'Université du Mans - contact : benoit.chesnais@univ-lemans.fr ou autres Modules de Master sur recommandation du Directeur de thèse ou de l'expert de la commission des thèses, avec accord préalable du responsable du module de Master	Etablissements d'enseignement	Brest, Lorient-Vannes, Angers, Nantes, Le Mans, Rennes	h = durée cours max 20 h
Suivi d'un MOOC, Formation en ligne, suivant contenu et en accord avec le directeur de thèse	tout établissement		h = durée cours ... max 20 h
Suivi d'un MOOC, Formation en ligne, suivant contenu et en accord avec le directeur de thèse	tout établissement		h = durée cours ... max 20 h
Certification professionnelle en lien avec l'activité de recherche (ex certification vétérinaire)	EDSML tous les sites	Brest - Lorient - Vannes - Rennes - Angers - Nantes - Le Mans	volume horaire avec un maximum de 25 h
Ecole d'été, Ecole thématique, Séminaire spécialisé	Tout établissement		Volume horaire avec un maximum de 30 h
Communication en français dans un colloque scientifique	Tout établissement	Brest - Lorient - Vannes - Rennes - Angers - Nantes - Le Mans	10 h (1 seule fois au cours de la thèse)
Communication en anglais dans un colloque scientifique			20 h (1 seule fois au cours de la thèse)
Présentation d'un poster lors d'un colloque scientifique			10 h (1 seule fois au cours de la thèse)
Entreprenariat en association avec l'ENSTA Bretagne ou équivalent	Pôle doctoral Brest - EDSML	Brest	20 h
Médiation scientifique en collaboration avec "les petits débrouillards" Formation à la méditation + animation d'un atelier	Pôle doctoral Brest - EDSML	Brest	25 h
Permis bateau (sous réserve de justification de l'intérêt scientifique par le Directeur de thèse / Directeur du laboratoire)	EDSML - tous les sites	Brest - Lorient - Vannes - Rennes - Angers - Nantes -	10 h

		Le Mans	
Participation à une campagne scientifique ou à un embarquement d'une durée minimum de 7 jours consécutifs	EDSML - tous les sites	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	7 h (1 seule fois au cours de la thèse)
Participation bénévole à un groupe de travail international de type stock assessment, d'au moins 5 jours consécutifs	EDSML - tous les sites	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	5 h
Examens niveau plongées scientifiques (sous réserve de justification de l'intérêt scientifique par le Directeur de thèse / Directeur du laboratoire)	EDSML - tous les sites	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	5 h (1 seule fois au cours de la thèse)
Forum des doctorants de l'ED (destiné aux lycéens) Organisation du forum Présentation (vulgarisation scientifique)	EDSML : Association MERSCIDOC OU autre manifestation du même type	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	(1 seule fois au cours de la thèse) 10 5
Investissement dans l'organisation de manifestations de vulgarisation scientifique (Fête de la science, Nuit des chercheurs, café scientifique, ...) participation (stand par ex.) organisation de la manifestation <i>validation 1 seule fois au cours de la thèse</i>	EDSML tous les sites	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	5 h (1 fois au cours de la thèse) 10 h (1 fois au cours de la thèse)
Participation aux instances des établissements : conseil d'administration, Conseil Formation Vie Universitaire, Commission Recherche	EDSML tous les sites	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	10 h
Membre du Conseil de l'EDSML			
et toute autre formation sur validation de la direction de l'EDSML	tout établissement	Brest - Lorient - Vannes - Rennes Angers - Nantes - Le Mans	maxi 30 h

Contacts :

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