

1. Qualification title (In the original language)

Expert en accompagnement à la transition par la bioinspiration et le design (MS)

2. Translated qualification title (If applicable. This translation has no legal status.)

Expert in transition support through bio-inspiration and design (MS)

3. Profile of acquired competencies

To carry out, on an ongoing basis, proactive technical and scientific monitoring of its areas of focus, key stakeholders driving change, and societal developments (environmental, social, inclusive, economic, philosophical, technological, etc.) to identify emerging issues facing organisations, trends and weak signals (opportunities, threats),

Draw up the protocol for a sociological, ethnological or anthropological study, by determining the methodological tools best suited to the objectives of analysing the functioning of a region, an organisation, a scheme or a human and non-human system, with a view to establishing a field of study aimed at identifying a context, the challenges and issues that may open up opportunities, whilst taking inclusivity into account.

To oversee a sociological, ethnological or anthropological study, by guiding the fieldwork carried out by a design and sociology team—composed with the aim of ensuring the inclusion of people with disabilities and diversity—in partnership, where appropriate, with sector-specific experts (urban planners, ecologists, scientists...) and various types of users, where appropriate, in order to observe and analyse current uses, culture and functioning of a territory, an organisation or a scheme; to understand the systems and stakeholders involved in a subject of study; to gain a qualitative and empathetic understanding of the behaviours and needs of service users.

To lead the assessment of the context (environment, stakeholder dynamics, etc.) of a territory, organisation, scheme or human and non-human system, by guiding the analytical work carried out by multidisciplinary teams, and by synthesising the results of studies conducted in an analytical and summary report, to identify the challenges and opportunities of the transition in terms of social, inclusion, environmental and cultural benefits, etc.

Formulate the issue(s) arising from the contextual analysis, by facilitating the progressive thought process undertaken by multidisciplinary teams, in order to identify the challenges and opportunities of an inclusive transition process for a region, an organisation, a mechanism or a living system.

Lead a strategic review to re-examine and reformulate a transition issue by scrutinising the objectives, current practices and operations (of a region, organisation, mechanism or system), through a collaborative and multidisciplinary approach, in order to establish the relevant scope of research and impact and/or reframe the challenges within a holistic assessment of the situation

Assess the feasibility of a transition approach through design and bio-inspiration in order to identify enabling conditions and bottlenecks, with a view to presenting a relevant roadmap for project roll-out by exploring living systems and evaluating the constraints, risks, associated areas for vigilance

Determine the conditions for implementing a transition approach through design and bio-inspiration, as part of a collaborative working process involving a multidisciplinary team, in order to:

Identify the successfactors required, within an inclusive approach

Promote social acceptability amongst beneficiaries.

Formulate recommendations regarding collaborations, methods and tools, and provide decision-making support.

Define the scope of the intervention, the ideal team and the network of partners, by drawing up – in collaboration with designers – the terms of reference for the mission to support transitions through design and inclusivity, in order to provide a framework for the approach.

Conduct a prospective study by organising a multidisciplinary team (designers, sociologists, political scientists, etc.), in partnership with sector-specific experts where appropriate, to establish a modus operandi for collective work and the implementation of the project's various phases.

Collectively devise initial hypotheses for alternative future scenarios, through collaborative sessions bringing together a multidisciplinary and inclusive group to explore different avenues for solutions and inform strategic and operational thinking

Generate, in a collaborative format, new and original bio-inspired forms, alternatives, designs, meanings and concepts through projection and anticipation, by utilising tools for exploration, value proposition and concept generation, with a view to developing a shared vision of hypothetical transition scenarios, taking into account the objectives of sustainability, ecological responsibility, ethics and inclusion.

To formalise bio-inspired alternative future scenarios using a prototype or model of the envisaged solution centred on the beneficiaries of a public policy or organisation, by coordinating a team responsible for applying modelling and rapid prototyping

techniques with a view to presenting it to representatives of a local authority, a public body, an NGO, a design agency, a company, etc.

Conducting a simulated experiment of alternative future scenarios, by coordinating the use of design methods (visualisation, iterations, explorations) in a simulated scenario, in order to present the proposed alternatives to beneficiaries and stakeholders so that they can assess their relevance, acceptability and feasibility.

Initiate a collective analysis of the experiment's results, coordinating the creative team's work on developing evaluation tools to measure the impact of the alternative futures tested and assess the relevance of the proposed solutions in light of the challenges, the available resources and timeframe, whilst taking into account the values of inclusivity and ethics.

Work as a group to re-examine an unsatisfactory solution from a new angle, as part of an iterative process, adopting an experimental method based on trials, back-and-forth iterations and a gradual progression, within the framework of workshops for generating bio-inspired concepts, to co-develop a continuation or reorientation of the transition scenario.

To discuss the conditions for rolling out the selected bio-inspired alternative future scenario, by facilitating collective reflection groups that inclusively bring together beneficiaries and stakeholders (of a public policy, an organisation or a scheme, etc.), in order to utilise the levers and address the constraints or obstacles to implementing the transition.

Formalise the strategy resulting from the refinement of the selected alternative future scenario during the iterative process, intended to guide its future roll-out, with a view to presenting it to decision-makers within a local authority, a public body, an NGO, a design agency, etc., for example by drafting a roadmap, to demonstrate its relevance, feasibility and the conditions for its social acceptability.

To continuously assess, from the initial ideas right through to the formalisation of the proposed alternative future, its responsible dimension, by examining its ethical implications during collective brainstorming sessions with a team of designers, in order to evaluate the extent to which the objectives of ecological, inclusive and social transition are being met: By reducing the carbon footprint, by strengthening eco-design and circular economy approaches, by preserving biodiversity and inclusion, and by reducing social inequalities

Unite teams around the project and the strategy for implementing a transition through design and bio-inspiration, by engaging stakeholders and utilising educational tools to prepare support for the transition process, whilst taking into account the values of inclusivity and ethics.

Engage partner communities (such as clusters) in the transition process driven by design and bio-inspiration, through a network facilitation framework (meetings, events, collaborative platforms, etc.), and by creating ecosystems to foster synergies, thereby improving the relevance and governance of the creation and implementation of solutions, whilst ensuring that inclusion needs are taken into account

Draw up an operational roadmap formalising the strategic and operational priorities for rolling out the approach to supporting transitions through design and bio-inspiration, in order to identify milestones and propose measurable progress over time and in terms of outcomes

Facilitate the collective development of a strategy to highlight the key issues and outcomes of a project supporting transition through design and bio-inspiration, with a view to rolling it out across a region, organisation or system by defining an approach and a communication strategy tailored to each target audience, the presentation, materials and promotional arguments to highlight its value and impact according to the target audiences, **and by organising** working meetings with dedicated teams to define the Artistic Direction

Developing the strategic case to guide the future roll-out of a project supporting a transition through design and bio-inspiration, to demonstrate its potential or proven impact by facilitating workshops to collectively build the case, taking into account the collaborative capabilities of the various audiences **and demonstrating** the project's feasibility and desirability by drawing on appropriate data or methods

Implement a facilitation approach for transition through design and bio-inspiration to drive change by leading role-play sessions, utilising educational materials, and familiarising target audiences with changes to lifestyles and working practices, as well as the necessary compromises brought about by the upcoming transitions

Oversee the creation of educational tools and materials tailored to the target audiences to roll out the transition support project, by collaborating with the relevant communication professionals to ensure the consistency of promotional initiatives and their inclusive adaptation to diverse audiences, and by facilitating meetings and consultations to steer the communication process

Develop an appropriate oral presentation for each target audience to demonstrate the responsible impact of a transition support project through design and bio-inspiration, by identifying and summarising key points to persuade, depending on the context, the various stakeholders, and by highlighting the ethical, social, inclusive and ecological scope of a transition approach based on bio-inspiration and design, thereby situating the message within a CSR context

Develop an advocacy strategy to promote approaches to supporting transitions through design and bio-inspiration, to ensure the continued adoption of these approaches, and to guarantee the long-term development of this type of approach or the project in question, by forging alliances to establish a networked approach within a sector or activity over the long term, by organising initiatives to share knowledge and rally support from various circles of influence, and by developing models to create demonstration projects.

To promote the added value of combining design and bio-inspiration as a strategic lever for transformation and adaptation in the face of ecological, ethical and societal challenges, amongst elected representatives, network leaders, intermediaries, socio-economic stakeholders, professional organisations and prospective clients, so that they may integrate this approach into their strategies and foster behavioural change conducive to responsible, sustainable, inclusive, equitable and desirable development.

To implement a lobbying strategy, by scrutinising current standards and implementing an influence strategy to remove barriers (regulatory, political, psychological/discriminatory and behavioural, technical, economic, etc.)

To guide the future technical and commercial development of an alternative business offering and bio-inspired innovation, with a view to disseminating and implementing the approach in the long term by setting objectives across different timeframes and levels of achievement to maintain the political motivation of decision-makers and investors, and by jointly developing indicators to measure and recognise the progress and achievements made at these various levels

Undertake a collective co-creation process to define the forms, organisations and structures necessary and conducive to the roll-out of the bio-inspired alternative future scenarios that have been generated and validated: by evolving business models, devising new economic models, contributing to the development of standards, and structuring networks of influence to drive change.

4. Range of occupations accessible to the holder of the qualification (If applicable)

Sectors of activity :

Graduates of the Master's programme in Transition Support through Bio-inspiration and Design work in the following organisations:

- in any public or private company, whether commercial, industrial or service-based
- in non-profit organisations or associations
- in national or regional public services

Working arrangements:

- as part of a design or innovation team, or in any department of an organisation facing ecological and social transition challenges
- as a cross-functional expert within an organisation
- as an independent expert on consultancy assignments.

Sectors: energy and utilities, transport, healthcare, tourism, aerospace and aviation, agri-food, marine and forestry, IT and digital technology, research, innovation and development, education, culture and cultural mediation, consultancy for businesses and organisations, retail, consumer goods, business services, public services

Types of attainable jobs :

Head of Sustainable Development Strategy

Project Manager for Sustainable Development, Environment, Biomimicry and Design

Consultant: in project management/change management/organisational development

Consultant in environment, biomimicry and design, ecological transition and sustainable development

Project Officer for Ecological Transition, Sustainable Development and the Environment

Industrial Designer specialising in eco-design and biomimicry

Programme Manager for Biodiversity, Sustainable Development and Ecological Transition / Transition through Bio-inspiration and Design / Environmental Division

Environment, Sustainable Development and CSR Coordinator

Director of Sustainable Development/Innovation through Design and Bio-inspiration

Director of Economic Development/Urban Planning

Expert in transition/in innovation strategy through bio-inspiration

Consultant in biomimicry and design / environmental affairs / transition through bio-inspiration and design

Trainer in transition through bio-inspiration and design

Curator of exhibitions relating to transition

Legal references for business regulations :

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5. Legal basis of the qualification

Body awarding the certificate

Certifying legal name

ECOLE NAT SUPER CREATION INDUSTRIELLE

Grading scale / Pass requirements

Assessment procedures

The assessment methods include:

1. **A professional scenario** is used to assess the skill sets: **the collaborative completion of an** industrial or public policy **project**, based on a real-world or forward-looking topic. (group assessment)

The expected deliverables are: an analysis, a forward-looking study, summary reports, models, visual presentations and their oral defence, either as a group or individually

Presentation materials and methods of presentation may

take any form of media deemed appropriate to the project or to the candidates' disability.

2. **The completion of a professional assignment (work placement, independent assignment, in-company assignment or work-study scheme)**

within a company, a charity or the public sector, assessed by the certifying body on the basis of the assignment report.

3. **A professional thesis addressing research or professional challenges relating to transition through bio-inspiration in design, within an identified and problematised professional or political context.**

The expected deliverables are: a professional thesis in written form or any other medium deemed appropriate to the project or the candidate's disability. An oral presentation and defence before a panel.

Description of the procedures for acquiring certification by capitalisation of blocks of skills and/or by equivalence

Qualification is awarded to candidates who have met all of the following conditions:

- Have successfully completed the five skill modules that make up the Qualification,
- Have completed a professional placement lasting between 4 and 6 months and submitted an approved placement report,
- Have produced and presented a professional thesis, taking a comprehensive and cross-disciplinary approach, based on a work placement of at least 4 months' full-time equivalent

Qualification level

National level (Décret n°2019-14 du 8 janvier 2019 relatif au cadre national des certifications professionnelles) : **Level 7**
European Qualifications Framework (EQF) level : **Level 7**

Authority providing accreditation / recognition of the qualification

France compétences
6 rue du Général Audran 92400 Courbevoie

Access to the next level of education / training

International agreements on recognition of qualifications

Legal basis

Date of registration decision : 28/03/2025
Registration period : 3
Registration expiry date : 28/03/2028

6. Officially recognised ways of acquiring the qualification

After a course of initial education or training as a pupil or student	Yes
Apprenticeship	Yes
After a course of continuing education or training	Yes
Professional work-based training	Yes
By individual application	No
Recognition of prior learning	Yes

7. Additional information

Entry requirements (if applicable)

General entry requirements

Applications are open to holders of one of the following qualifications:

- A graduate engineering qualification conferring a Master degree (courses assessed by the Commission des titres d'ingénieur, list published in the Official Journal);
- A degree from a private or consular management school conferring a Master degree (programmes assessed by the CEFDG, list published in the Official Bulletin of the Ministry of Higher Education and Research);
- A postgraduate qualification accredited by the university authorities (National Master degree, DEA, DESS, etc.) or a professional qualification equivalent to five years of higher education;
- A qualification or certificate validating a level equivalent to M1 for candidates with at least three years' professional experience relevant to the programme in question.
- A qualification listed in the National Register of Professional Certifications (RNCP) at level 7;
- A foreign qualification equivalent to the French qualifications required above.

Exceptional admission criteria

1. Up to a maximum of 40 per cent of the intake for the relevant Specialised Master's programme, the following applications are admissible, subject to a procedure for the validation of prior learning and professional experience (VAPP): applications from individuals who can demonstrate at least 5 years' professional experience, where the activities carried out are demonstrably linked to the professional skills targeted by the programme.
2. For up to 30 per cent of the number of students on the relevant Specialised Master's programme, applications are admissible from holders of one of the following qualifications:
 - A degree or certificate validating a level equivalent to M1, with no professional experience or with less than three years' professional experience relevant to the programme in question.
 - A Bachelor's degree (L3) or a qualification registered at level 6 in the RNCP, demonstrating at least three years' professional experience relevant to the programme in question.

The total percentage of exemptions provided for in points 1) and 2) above must not exceed 40 per cent.

[More information \(including a description of the national qualifications system\)](#)

<https://www.francecompetences.fr>

Centre national Europass

<https://agence.erasmusplus.fr/programme-erasmus/outils/europass>