



Teaching opportunities in Environmental Systems (Geosciences / Biology) for the Bachelor I-BE³ (F/H)

POSTE À POURVOIR le 31/08/2026

LOCALISATION DU POSTE 06560 SOPHIA ANTIPOLIS, PROVENCE-ALPES-CÔTE D'AZUR 06560

ÉTABLISSEMENT MINES Paris - PSL

ENVIRONNEMENT ET CONTEXTE DE TRAVAIL

MINES Paris - PSL forme depuis sa création en 1783 des ingénieurs de très haut niveau capables de résoudre des problèmes complexes dans des champs très variés.

Première école d'ingénieurs en France par son volume de recherche contractuelle, MINES Paris - PSL dispense une importante activité de recherche orientée vers l'industrie. Ses domaines de recherche s'étendent de l'énergétique aux matériaux, en passant par les mathématiques appliquées, les géosciences et les sciences économiques et sociales. L'école d'ingénieurs développe également la création de chaires d'enseignement et de recherche sur des thèmes émergents.

Notre établissement fait partie de l'Université PSL. Située au cœur de Paris, celle-ci fait dialoguer tous les domaines du savoir, de l'innovation et de la création. Classée parmi les 50 premières universités mondiales, elle forme au plus près de la recherche des chercheurs, artistes, ingénieurs, entrepreneurs ou dirigeants conscients de leur responsabilité sociale, individuelle et collective.

STRUCTURE D'ACCUEIL

MINES Paris - PSL is one of the most prestigious engineering schools in France and trains generalist engineers through an innovative and multidisciplinary educational experience in which engineering sciences are closely intertwined with the humanities and social sciences. This dual focus is further reinforced by its affiliation with PSL University, which ranks among the top 50 in international rankings and offers a unique opportunity to enrich students' academic journeys.

MISSION D'ENSEIGNEMENT

MINES Paris – PSL is launching the [**International Bachelor of Environmentally Engaged Engineering \(I-BE³\)**](#), a selective, English-taught undergraduate engineering program, addressing major environmental and societal challenges. It combines strong scientific foundations, project-based learning with each semester structured around real-world projects aligned with selected SDGs: energy, water, health, sustainable cities, climate. Based in Sophia Antipolis, I-BE³ is developed in partnership with Chimie ParisTech – PSL and is accredited by the French Engineering Accreditation Commission (CTI) as a Bachelor of Science and Engineering, conferring the French national *Grade de Licence*.

Within this framework, Mines Paris is seeking teaching contributors ("vacataires") in Environmental Systems (Geosciences and/or Biology). The contributions are embedded in an innovative pedagogical model structured around disciplinary teaching units, semester-long SDG projects, and the student support framework CARE (Coaching, Accompaniment, Remediation, Enrichment).

Teaching focuses on Earth and environmental systems (climate, water, and biogeochemical cycles), while introducing key concepts in environmental biology and ecosystems. The objective is to enable students to understand and model interactions between natural systems and human activities, and to apply this knowledge within real-world engineering challenges.

Teaching scope (indicative):

- Earth system science (climate system, atmosphere, hydrology, surface processes)
- Biogeochemical cycles (carbon, water, interactions between spheres)
- Environmental systems and human impacts
- Introductory ecology and ecosystems
- Data analysis, modelling, and/or field observations

Key responsibilities:

- Deliver lectures, tutorials, and/or practical sessions in English at undergraduate level
- Design teaching materials aligned with program objectives and competency-based approach
- Ensure strong articulation between Environmental Systems teaching and other disciplines (mathematics, physics, chemistry, data science engineering)
- Contribute to semester-long SDG projects
- Participate in student assessment (continuous assessment, exams, project evaluation)
- Contribute, where relevant, to CARE activities (mentoring, feedback, academic support)
- Collaborate with faculty to ensure coherence across teaching units and projects
- Teaching emphasizes systems thinking, quantitative reasoning, and the integration of scientific knowledge into sustainability and engineering contexts.

MISSION DE RECHERCHE

COMPÉTENCES ATTENDUES

Required Qualifications

- Master's or PhD in Biology, Geosciences, Environmental Sciences, or related field or be certified biology/geosciences teachers through the French *Agrégation* or *CAPES*.
- Ability to teach fluently in English.
- Proven teaching experience at undergraduate level, or strong potential for teaching excellence.
- Interest in interdisciplinary teaching and sustainability-related engineering and SDG challenges.

Preferred Qualifications

- Experience in applied or environmental contexts.
- Experience with fieldwork, lab work, data analysis.

Skills and Personal Qualities

- Strong pedagogical skills and commitment to student-centred learning.
- Capacity to work collaboratively within interdisciplinary teaching teams.
- Organizational skills and attention to educational quality.
- Interest in mentoring students and contributing to CARE activities
- Motivation to contribute to an innovative engineering program focused on environmental engagement.

Teaching Conditions

- Part-time teaching assignment ("vacation")
- Typical teaching volume: 40–80 contact hours per semester (depending on course allocation and candidate profile)
- Teaching activities take place on-site in Sophia Antipolis (campus Pierre Laffitte)
- Compensation according to institutional rates

MINES Paris – PSL is strongly committed to equal opportunity, gender balance, and diversity in social, cultural, and geographical backgrounds.

Application

Applicants should submit:

- A curriculum vitae.
- A brief statement of teaching philosophy.
- A description of relevant teaching experience and areas of expertise.

NON DISCRIMINATION, OUVERTURE ET TRANSPARENCE

Notre établissement, comme l'ensemble de l'Université PSL, s'engage à soutenir et promouvoir l'égalité, la diversité et l'inclusion au sein de ses communautés. Nous encourageons les candidatures issues de profils variés, que nous veillerons à sélectionner via un processus de recrutement ouvert et transparent.

CONTACT

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AUTRES INFORMATIONS

Recherche principal : **Sciences biologiques** Recherche secondaire : **Biologie**

Rémunération : **64.0 € (Euros) par heure**

Durée du contrat 1 an(s)

Expérience souhaitée
Niveau doctorant (R1) an

Référence
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