

The University of Nice Sophia Antipolis recruits  
**A Post-doc in Economics of Eco-DRR (ecosystem-based disaster risk reduction)**

*Post to be filled on 15 October 2017*

**Job Title:** Post-doc in Environmental Economics (Economics of Eco-DRR)  
**Recruitment level:** Holder of a PhD in Environmental/Ecological Economics  
**Job location:** Mediterranean Institute of Risks, Environment and Sustainable Development (IMREDD) – Nice Premium Building (4<sup>th</sup> floor) - 61-63, avenue Simone Veil – 06 200 Nice  
**Type of contract:** 12-month fixed term contract (15 October 2017 – 15 October 2018).  
**Reporting line:** the post is placed under the hierarchical authority of the IMREDD director

### PRÉSENTATION OF THE ORGANISATION

Created in 1965, the **University Nice Sophia Antipolis (UNS)** is established throughout the Alpes-Maritimes Department in Nice, Cannes, Menton, and Grasse and is a major player of the Sophia Antipolis science park. **UNS is member of the Community of Establishments and Universities Université Côte d'Azur (UCA)** since the 27<sup>th</sup> of February 2015. It is research intensive, pluridisciplinary and internationally open up (nearly 20% of international students) and thus stands within the top 3% university world ranking. It welcomes every year more than 29 000 students of which about 1 300 PhD students distributed. It counts nearly 2 700 staff members of which about 1 600 teachers and teachers-researchers distributed over 9 faculties, 2 institutes and 2 higher school and 44 research units.

New Institute of the University Nice Sophia Antipolis, IMREDD stands as one of the major strategic project of the excellence initiative (idex) Joint Excellent and Dynamic Initiative (JEDI), a French label awarded in 2016 to the Community of Universities and Establishments **Université Côte d'Azur (UCA)**. Located in the Nice Eco-Valley, at the heart of the "Nice Meridia" Business District, IMREDD represents a «**Reference Center**» addressing the following societal challenge: **Smart territory, Risks prevention and Management.**

IMREDD defines a new form of cooperation between the research & education players, the local authorities and companies in the field of green technologies and the smart city. It develops research and development activities around an open technological platform today prefigured by the « Smart City Innovation Centre (SCIC) » officially launched in 2015. Key place for cross-fertilization and exploration of new ideas, SCIC fosters innovation for the smart city of tomorrow and boosts economic development. Its « Smart City open simulation zone » enables to view in real time all the data collected by the Nice Côte d'Azur Metropolis and illustrates the global city monitoring.

**Fields of Strategic Study: Smart district/building and energy; water cycle and environment; risks; smart and sustainable mobility**

### GENERAL ASSIGNMENT

Under the scientific responsibility of the project manager, the Post-doc performs research activities in the framework of the **European project NAIAD Nature Insurance value: assessment and demonstration** (Project ID: 730497 - H2020-SC5-2016-OneStageB).  
Link: [http://cordis.europa.eu/project/rcn/206403\\_en.html](http://cordis.europa.eu/project/rcn/206403_en.html)

**Areas of expertise:**

Environmental economics, economics of eco-DRR, valuation of ecosystem services.

**Keywords:**

Disaster (flood) risk reduction, ecosystems-based solutions, probabilistic cost-benefit analysis (CBA), multi-criteria analysis (MCA), institutional analysis, uncertainty, environmental governance.

**Responsibilities:**

The following tasks refer to the WP 4 – Economic approaches to the insurance value of ecosystems – and WP 6 – Demonstration of the insurance value of ecosystems and nature based solutions – of NAIAD project. The field of application is the *Brague catchment* (the NAIAD's French DEMO for torrential flood).

- Applying a probabilistic CBA to assess the insurance value of ecosystem-based solutions (EBS) to torrential flood, including a rigorous consideration of climate change scenarios and “joint” vulnerabilities associated to EBS.
- Applying a MCA to integrate (non-monetary) environmental and social dimensions of the multiple scenarios of torrential flood management and to identify trade-offs between goals/objectives.
- Developing an institutional analysis (by using the ‘Institutional Analysis Development’/ ‘Social-Ecological Systems’ framework provided by E. Ostrom and *al.*) to highlight the set of rules/incentives that structures existing interactions and outcomes, and to identify barriers and boosters for EBS in terms of regulations and governance mechanisms.

**Requirements:**

The candidate must hold a PhD in Environmental/Ecological Economics.

The candidate must demonstrate outstanding abilities in:

- Concepts and methods concerned with ecosystem services and their valuation;
- Concepts and methods concerned with CBA and MCA;
- Basic tools and methods of descriptive statistics, factorial and correlation analysis;
- Basic concepts and methods applied in behavioural and institutional economics.

The candidate must also be able to work in an interdisciplinary team.

**Scientific advisor:**

Ali Douai, Associate professor of ecological economics [ali.douai@unice.fr](mailto:ali.douai@unice.fr)  
Groupe de Recherche en Droit, Economie et Gestion (GREDEG, UMR 7321 UNS & CNRS)  
Université Nice Sophia Antipolis, member of Université Côte d'Azur

**SALARY**

From 2 184€ gross/month depending on the degree and seniority.

**RECRUITMENT PROCESS**

The candidate must send **by September 25<sup>st</sup> 2017** the following documents to Ali Douai ([ali.douai@unice.fr](mailto:ali.douai@unice.fr)) and [direction-imredd@unice.fr](mailto:direction-imredd@unice.fr)

- Curriculum vitae (max: 2 pages);
- A cover letter;
- Your most significant publication/research paper.