

FICHE NAVETTE: DOCTORANTS IDEX

SECTOR : Higher Education Institution

LOCATION: France, Grenoble

RESEARCH FIELD: **RISK, Reconstruction, Habitat, CrossDisciplinary approach, Resilience**

RESEARCHER PROFILE:

□ *First stage researcher (Master Degree level required)*

INSTITUTION: Univ. Grenoble Alpes, University of Innovation

One of the major research-intensive French universities, Univ. Grenoble Alpes¹ enjoys an international reputation in many scientific fields, as confirmed by international rankings. It benefits from the implementation of major European instruments (ESRF, ILL, EMBL, IRAM, EMFL²). The vibrant ecosystem, grounded on a close interaction between research, education and companies, has earned Grenoble to be ranked as the 5th most innovative city in the world. Surrounded by mountains, the campus benefits from a natural environment and a high quality of life and work environment. With 7000 foreign students and the annual visit of more than 8000 researchers from all over the world, Univ. Grenoble Alpes is an internationally engaged university.

A personalized Welcome Center for international students, PhDs and researchers facilitates your arrival and installation.

In 2016, Univ. Grenoble Alpes was labeled "Initiative of Excellence". This label aims at the emergence of around ten French world class research universities. By joining Univ. Grenoble Alpes, you have the opportunity to conduct world-class research, and to contribute to the social and economic challenges of the 21st century ("sustainable planet and society", "health, well-being and technology", "understanding and supporting innovation: culture, technology, organizations", "Digital technology").

Key figures:

- + 50,000 students including 7,000 international students
- 3,700 PhD students, 45% international
- 5,500 faculty members
- 180 different nationalities
- 1st city in France where it feels good to study and 5th city where it feels good to work
- ISSO: International Students & Scholars Office affiliated to EURAXESS

¹ Univ. Grenoble Alpes

² ESRF (European Synchrotron Radiation Facility), ILL (Institut Laue-Langevin), IRAM (International Institute for Radio Astronomy), EMBL (European Molecular Biology Laboratory), EMFL (European Magnetic Field Laboratory)

MANDATORY REFERENCES:

CDP TITLE: **RISK@Univ. Grenoble Alpes**

SUBJECT TITLE:

Understanding the relevance and impact of CDP approach in post-disaster reconstruction projects:
the case of ReparH ANR project after the earthquake of Port-au-Prince

PRIMARY SCIENTIFIC DEPARTMENT (LABORATORY'S NAME): AE&CC-CRAterre

SECONDARY SCIENTIFIC DEPARTMENT (LABORATORY'S NAME): 3SR

PRIMARY DOCTORAL SCHOOL (where the candidate will be registered): ED 454, SHPT, Sciences de l'homme, du politique et du Territoire

SECONDARY DOCTORAL SCHOOL: IMPE2

SUPERVISOR NAME(S): JOFFROY Thierry & DAUDEVILLE Laurent

SUBJECT DESCRIPTION:

Context and state of the art

In a globalizing context that shows important increase in natural disasters and precarity, the questions of climate change adaptation (CCA) and disaster risk reduction (DRR) are high on the international agenda of organizations and stakeholders. Within that framework, the issues of DRR for Human settlements are often heavily challenged by the cost and appropriateness of intervention (reconstruction, mitigation, etc.) to address the quantitative and qualitative needs. As a result of economic constraints and will for "efficiency", aid interventions prioritize critical infrastructures and provide support to some housing projects. Nevertheless aid and reconstruction efforts can never benefit to all. Therefore, the most vulnerable and disadvantaged communities are often left behind with no appropriate solutions, and even worst, with solutions that contribute to eradicate local building cultures and put people in more vulnerable situation. Though, elements of relevant answers emerge from field projects involving research centers that have articulated field investigations, experimentation and research-development supported by multi/cross-disciplinary research approaches. This was more specifically the case of the one supported by an ANR Flash Haïti research grant, the ReparH project, in which researchers from architecture and engineering disciplines have worked together with the support of other scientists (sociologist, anthropologist, etc.) as well as practioners from humanitarian and building sectors, sharing experiences , methodologies, and developing new knowledge.

<http://www.agence-nationale-recherche.fr/suivi-bilan/suivi-des-actions/10ans/repairh/>

The good results obtained and the medium term impact of the research component on the national housing reconstruction programme have led to question researchers and the international community of experts. The issue is nowadays discussed within the Global Shelter Cluster with a working group specifically dedicated to BBB: Building Back Better.

Research questions

How researchers and reconstruction field practitioners can improve their collaborations in DRR field to contribute to the resilience of communities and the society as a whole?

How to develop indicators and measure the added value of research in DRR housing project?

When are cross-disciplinary approaches peculiarly necessary in DRR housing projects? How, when and with which partnership should they be implemented?

Hypothesis

Cross-disciplinary approaches have a great potential for a better analysis of DRR situations and further determine pertinent strategies, projects and programmes to address the need for habitat reconstruction in post disaster situation, as well as preventative policies. Though this still needs to be better understood, more specifically on the consortium(s) to be built and at which level of decision / timeframe, so that it can be better planned and further, applied widely.

Methodology

Literature review on DRR (Disaster risk reduction) and reconstruction project

On the filed project analysis, in particular in Haiti and Népal with interview of local NGOs and beneficiaries
Interviews of International organizations (IFRC, IOM, UNISDR, Un-Habitat,...)
Interview of donors and financial institutions (EU, FDF, FAP, Misereor, ...)
International exchange seminars, including those of the GSC working group on BBB.

Main Bibliographic references:

UNISDR, (2015). Sendai Framework for Disaster Risk Reduction 2015-2030.
IRDR (2014). Issue Brief: Disaster Risk Reduction and Sustainable Development. Prepared by experts associated with the Integrated Research on Disaster Risk (IRDR) programme for the Seventh Session of the UN General Assembly Open Working Group on Sustainable Development Goals – <http://www.irdrinternational.org/policy/sdgs/>.
Audefroy, J. F. (2011), Haiti: post-earthquake lessons learned from traditional construction. *Environment and Urbanization*, 23(2), 447-462.
Weichselgartner J., Pigeon P., (2015), The Role of Knowledge in Disaster Risk Reduction, in: *International Journal of Disaster Risk Science*, Journal no. 13753
Caimi A. et Al. , CRATERRE, CARITAS, IFRC. (2015). Assessing local building cultures for resilience development. Villefontaine : CRATERRE. 121 p. Available at : <<http://craterre.hypotheses.org/999> > (seen November 30, 2015). ISBN 978-2-906901-86-5.
Vieux-Champagne F., Sieffert Y., Grange S., Polastri A., Ceccotti A., Daudeville L. 2014. Experimental analysis of seismic resistance of timber-framed structures with stones and earth infill. *Engineering Structures*. 69: 102-115.
Joffroy T., Garnier P., Douline A., Moles O. (2014). Reconstruire Haïti après le séisme de janvier 2010: réduction des risques, cultures constructives et développement local. Ed. CRATERRE, Villefontaine.

ELIGIBILITY CRITERIA

Applicants must hold a Master's degree (or be about to earn one) or have a university degree equivalent to a European Master's (5-year duration),

REQUIRED SKILLS

- Theoretical skills

The candidate is expected to show that he/she has shown interest in research within his /her university background. Background is open (Architecture, engineering, Project management, sociology, etc.) but should include interest in DRR.

- Methodological skills:

- ✓ Capacity of synthesis
- ✓ Facility to socialize and carry out interviews
- ✓ Experience abroad. An experience in one or several DRR project(s) will be appreciated

- Language:

A good level in French and English is compulsory (oral and written) and will have to be demonstrated

APPLICATION PROCEDURE

Applicants will attach a file including:

- Their CV
- A cover letter / letter of motivation
- A summary of previous works done/publications
- A record of the grades of Master 1 and Master 2
- A copy of their last diploma

Address to send their application: bano.z@grenoble.archi.fr

SELECTION PROCESS

Application deadline: **May 31, 2018** at 17:00 (CET)

Applications will be evaluated through a three-step process:

1. Eligibility check of applications on **June 7, 2018**
2. Selection: the applications will be evaluated by a Review Board in June 2018
3. Results will be given by **July 12, 2018**.



TYPE of CONTRACT: temporary-3 years of doctoral contract

JOB STATUS: Full time

HOURS PER WEEK: 35

CONTRACT STARTING DATE: **October 1, 2018**

APPLICATION DEADLINE: **May 31, 2018**

Salary: 1768.55 € gross per month