15 PhD positions in the EU Horizon 2020 Marie-Skłodowska-Curie Project: MSCA-ITN-TERRANOVA

Would you like to become part of a new generation of landscape managers? Would you like to be employed and trained as a PhD researcher and to work, with a prestigious European fellowship, in an international and multidisciplinary team of researchers, professionals and entrepreneurs in the field of landscape history and management? Then, the TERRANOVA partners would like to hear from you Apply for the position of PhD in one of our 15 research and training projects in Sweden, Norway, Denmark, Germany, France, Belgium and the Netherlands. You should apply via www.terranovaproject.eu

TERRANOVA: 'The New Learning Initiative between Humanities and Science: Mapping Past Environments and Energy Regimes, Rethinking Human Environment Interaction and Designing Land Management Tools for Policy' invites applications for 15 PhD fellowships to be funded by the Marie-Skłodowska-Curie ITN Action as part of the H2020 Programme of the European Commission. TERRANOVA is a consortium of high-profile universities, institutions with acknowledged heritage, landscape and planning expertise, civil society organizations and SMEs, located in in Sweden, Norway, Denmark, Germany, France, Belgium and the Netherlands.

Short programme description. TERRANOVA aims at improving our diachronic long term understanding of landscape histories and land use strategies in Europe in the Holocene and Anthropocene. Previously identified socio-cultural transitions and the effects of natural forcings will be critically assessed in a new intellectual interdisciplinary arena created by the Terra Nova project. Regional and continental syntheses will be used to anchor a new generation of landscape and climate change models which include the effects of past human actions and generate scenarios for landscape management and rewilding.

Ultimately TERRANOVA will contribute to identifying major previous shifts in resource use and energy regimes and provide options for the future transition to a low carbon society. Can we identify a balance between natural and cultural landscapes changing over space and time? Can we establish a natural reference for 'European landscapes' to evaluate current and future measures of landscape planning, ecosystem restoration and rewilding? Or are both systems so intertwined that the separation of the human from the natural is complex and scale and time dependant? Some researchers mark the industrial revolution as the start of the Anthropocene, others argue that long ago humans in Europe had a larger influence than natural processes upon the landscape. Notwithstanding these differences, there is consensus that the intensity of management and impacts of land management on natural systems today is unprecedented. This leads on to consideration of themes of sustainability and societal impact upon landscapes in the 21st century. From this perspective knowledge of past energy regimes and landscape interactions are essential components in understanding the present transition to a low carbon society. By doing this, TERRANOVA will establish a new

pan-European, transnational, interdisciplinary and cross-sectoral research and training standard; see www.terranovaproject.eu

Principal TERRANOVA partners and hosts for PhDs
- Vrije Universiteit Amsterdam (VUA; TERRANOVA coordinator): Faculty of Humanities/ Archaeology, CLUE+; Faculty of Science/ Environmental Geography, Earth Sciences
- Universiteit Leiden (UL): Faculty of Archaeology
- Martin-Luther Universität Halle-Wittenberg (MLU): iDiv, the German Centre for Integrative Biodiversity Research
- Uppsala University (UU): Department of Archaeology and Ancient History
- Rewilding Europe (RE): NGO/SME
- Aarhus University (AU): Department of Bioscience/ Section for Ecoinformatics & Biodiversity,
- Centre National de la Recherche Scientifique (CNRS): Environmental Geography, Landscape Analysis
- International Union for Conservation of Nature (IUCN): NGO
- University College of Southeast Norway (USN): Natural Sciences and Environmental Health

Number of PhD positions available
15

Career Stage
Early stage researcher (ESR), i.e., postgraduate with 0-4 years of academic research experience at the date of recruitment.

Research Fields
The consortium includes many of the leading research institutions in Europe and beyond with regards to archaeology, landscape modelling, rewilding, nature conservation, biodiversity, land use analysis and modelling, paleoecology and paleoclimatology.

Diversity
Diversity is a core value of TERRANOVA. We are an inclusive community, and we believe that diversity and international activities enhance the quality of research and training. We are looking for people who can enhance diversity in our team thanks to their background and experience.

Benefits, salary and duration
The successful candidates will receive an attractive salary in accordance with the MSCA regulations for Early Stage Researchers. The exact (net) salary will be confirmed upon appointment and is dependent on local tax regulations and on the country correction factor (to allow for the difference in cost of living in different EU Member States). The salary includes a living allowance, a mobility allowance and a family allowance (if married). The guaranteed PhD funding is for 36 months (i.e. EC funding. Additional funding is in some cases possible, depending on the local supervisor).

EU Marie Skłodowska-Curie eligibility criteria
Applicants can be of any nationality. They need to fully respect all two eligibility criteria (to be demonstrated in the Europass cv):
- *Early-stage researchers (ESR)* are those who are, at the time of recruitment by the host, in the first four years (full-time equivalent) of their research careers. This is measured from the date when they obtained the degree which formally

entitles them to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the research training is provided, irrespective of whether or not a doctorate was envisaged.

- *Conditions of international mobility of researchers*: Researchers are required to undertake trans-national mobility (i.e. move from one country to another) when taking up the appointment. At the time of selection by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the 3 years immediately prior to their recruitment. Short stays, such as holidays, are not taken into account.

General requirements (check the individual projects for specific requirements)
- a (R)MA, or MSc degree in a relevant discipline (e.g.; archaeology, landscape modelling, rewilding, nature conservation, biodiversity, land use analysis and modelling, paleoecology and paleoclimatology.; **check the specific projects**);
- excellent research skills and experience in research by means of scientific publications will be favored (e.g. conference papers, journal articles, book chapters);
- high level of proficiency in English language
- outstanding communication skills as well as organizational talent and willingness to engage in international, interdisciplinary collaborative research, workshops and secondments;
- ability to work on own initiative and manage own workload, as well as to keep to tight deadlines

Recruitment Procedure

All applications proceed via the local on-line channels of the TERRANOVA partners, accessible via the TERRANOVA recruitment website, www.terranovaproject.eu. You can apply for more than one position (but no more than 3). Candidates provide all requested information including a detailed CV and cover letter. During the registration, applicants will need to prove that they are eligible (cf. ESR definition, mobility criteria, and English language proficiency).

Key dates

15 April 2019:   Application deadline for PhD fellowships
16 April-20 June 2019: Evaluation, interviews and selection process
21 June 2019:   Successful candidates informed
1 October 2019:   ESRs are employed and ready to start

The 15 PhD positions that are available:

Work package 2 'RECONSTRUCTING – past environments and energy regimes
1. Natural baseline in Europe at the dawn of the cultural landscape. Host: AU (DK)
2. Balancing nature and culture in north European landscape evolution and integrated legacies. Host: UU (SE)
3. Modelling human-environment interactions in landscape change (ABM). Host: UL (NL)
4. Balancing nature and culture in southwest European landscape evolution and integrated legacies. Host: VUA (NL)
5. Balancing nature and culture in southeast European landscape evolution and integrated legacies. Host: UU (SE)
6. Pollen-based quantitative reconstructions of past natural and anthropogenic landscape openness in five European field laboratories. Host: CNRS (FR)

Work package 3 'RETHINKING – human-environment interaction'

7. Modeling land cover change in Europe over the current and previous energy regimes: The combined effects of climate and anthropogenic activities on the development of European landscapes. Host: VUA (NL)
8. Macro-scale perspectives on past and potential future megafaunas across Europe and their ecological impacts. Host: AU (DK)
9. Modelling and characterization of climate, environment and human impact during the four energy regimes. Host: UNS (NO)
10. Trade-offs between culture and nature in landscape development. Host: VUA (NL)

Work package 4 'DESIGNING – Land management tools for policy'
11. What is the socio-economic value of landscape management? Host: MLU (DE)
12. Investigating the potential of natural restoration and Rewilding in the European landscape. Host: RE (NL)
13. Defining a framework for Rewilding European landscapes in the Anthropocene. Host: MLU (DE)
14. Managing trade-offs in agricultural landscape transitions: protecting cultural heritage vs. rewilding. Host: IUCN (BE)
15. A long term view of nature and culture in decision making. Host: CNRS (FR)