

RESTORE Short Term Scientific Mission Hosting proposal

STSMs are research visits to a host institution where the applicant will perform research activities that advance the objectives of RESTORE. STSMs must be between 5 and 90 days (although, they may exceed that duration in specific instances for Early Career Investigators). Successful STSM applicants are financially supported by the Action with a fixed contribution of up to 2500 EUR. STSMs do not fund research activities, only travel related costs. This information will be posted on the RESTORE website for potential applicants to review.

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| HOST Institution: | Name: Politecnico di Torino Country: ITALY ITC Country: no Website: https://www.polito.it/ - https://www.trustcollaboration.com/ |
| Supervisor of the STSM: | Name: Giulia Sonetti Position: Assistant professor, Polito Green Team Management Email: giulia.sonetti@polito.it Phone: skype: giulia.sonetti |
| | RESTORE MC Member: no ECI: no |
| <p>The proposed research and its relevance for the RESTORE Action fall into the topic of the WG4 “Rethinking Technology”. Research questions aim to explore how much does it socially, environmentally and economically costly to achieve a restorative/regenerative built environment.</p> <p>While there are many strategies, technologies, and methodologies to evaluate the social, environmental and economic aspects of the technologies on the regenerative built environment, the candidate for this STSM will conduct an extensive literature review on the different tools and methods adopted for an inter/trans-disciplinary, holistic evaluation approach for sustainability in the built environment.</p> <p>For WG4, we are expecting to develop a framework which can serve as the benchmark for the practitioners and other stakeholders in the industry to approach and achieve the desired results for the regenerative built environment.</p> <p>The technological aspect of this research is very interesting and creates an excellent opportunity to develop a decision making or evaluation tool which can be used based on the data available. This will enhance the adaptability among the stakeholders, which will eventually be the deliverable of the task.</p> <p>The connection with the complexity of SDGs agencies and their applicability into complex decision-making procedures is also another crucial aspect to be explored in the STSM.</p> | |
| <p>Potential applicant requirements:</p> <p>STSM candidates should have familiarity with decision making and data analysis software, machine learning and AI-based techniques, as well as multi-criteria decision making tool like Monte Carlo simulations, palisade risk software, AHP, and fuzzy logic algorithms.</p> <p>They should also be familiar with Industry standards like LEED, WELL, International Living Future Institute, cradle to cradle product innovation institute, BREEM and Green Start for the data gathering phase on certified buildings, comfort and post-occupancy evaluations.</p> <p>Strong spoken and written English is a must, as is the ability and willingness to co-publish results from the research. Applicants need to be able to work independently with regular check-ins and be highly motivated and interested in problem-solving key issues.</p> | |

NOTE: This form should not exceed one page.