



Royal Netherlands
Meteorological Institute
Ministry of Infrastructure
and Water Management

Call for grantee(s) within OpenSense Short-Term Scientific Mission Grant

The Department of Water Management of the Faculty of Civil Engineering and Geosciences at Delft University of Technology (TU Delft) and R&D Observations and Data Technology at the Royal Netherlands Meteorological Institute (KNMI) work together on remote sensing of precipitation, and especially opportunistic sensing of precipitation. We are currently primarily focused on CML-based rainfall estimation in the Global South (notably Sri Lanka, Nigeria and Papua New Guinea; <https://doi.org/10.1088/1748-9326/ac0fa6>) and on PWS-based rainfall estimation in the Netherlands (<https://doi.org/10.1029/2019GL083731>) and elsewhere in Europe. We welcome grantees for Short Term Scientific Missions (STSMs) related to these topics, which are covered by the COST action OpenSense.

Grantees visiting TU Delft and KNMI can contribute to one of the following research projects:

- Contribute to CML-based rainfall retrieval in the Global South employing large datasets. This may for instance involve optimization of parameters, improving rainfall retrieval algorithms, testing other interpolation methods, nowcasting, or merging with satellite precipitation products. Especially a comparison of the performance of other algorithms with that of our RAINLINK algorithm is highly welcomed, which can also be performed using a benchmark CML dataset from the Netherlands.
- Using PWS rain gauge data from the Netherlands or Europe, our developed quality control algorithm could be evaluated or improved, or its performance could be compared to that of other algorithms. Also merging PWS data with ground-based weather radar data could be investigated.

Good programming (e.g., R, Python) and data analysis skills are desirable, but we are open to candidates with different backgrounds.

The preferred duration of STSM is upon the applicant. However, the proposal has to meet all the criteria given in First Call for STSM (Short-Term Scientific Mission) – 2022 and also general eligibility criteria given by COST Association for STSM grants.

In case of interest contact Remko Uijlenhoet (r.uijlenhoet@tudelft.nl) or Aart Overeem (overeem@knmi.nl).

About OPENSENSE (COST Action CA20136). *OPENSENSE brings together scientists investigating different opportunistic sensors (e.g. microwave links, citizen science), experts from weather services, and end-users of rainfall products to build a worldwide reference opportunistic sensing community. Further details about the grants can be found here: <https://opensenseaction.eu/grants/mobility-grants/>*