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To whom it may concern

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Ph.D. Position in Imaging Spectrometer Sensor Calibration and Uncertainty

The Remote Sensing Laboratories at the Department of Geography, University of Zurich invite applications for a PhD position in the area of imaging spectrometer sensor characterisation and calibration, sensor modelling, uncertainty estimation and spectral information systems. This position is available within the Metrology for Earth Observation and Climate (MetEOC3) project in the framework of the European Metrology Research Program (EMRP). The position will involve collaboration with partners in the MetEOC3 consortium, working on pre-flight calibration of optical sensors and the support of SI traceable validation test sites for in-flight/post-launch calibration and validation. Specifically, the position will work with airborne imaging spectrometers and contribute to further development of the spectral database SPECCHIO to support RadCalNet sites including the handling of uncertainty.

The successful applicant will be based in Zurich and supervised by Andreas Hueni (daily supervision), Mathias Kneubühler and Michael Schaepman (responsible Faculty member).

The Remote Sensing Laboratories (RSL) host several research groups working on a variety of topics related to land surface processes, including the use of SAR, LIDAR and imaging spectroscopy based approaches. For more information, see <http://www.geo.uzh.ch/en/units/rsl>.

Upon start, applicants must have a completed masters degree in remote sensing or any related science field, preferably with a certain degree of specialization in remote sensing. Applicants must be able to pursue data-oriented computational research on spectral data and metadata, implement sensor simulations, adapt existing calibration information systems to new sensors, as well as design and conduct experimental approaches. Literacy in one or more programming languages (e.g. Matlab, Java) is a requirement. Knowledge of relational databases (i.e. MySQL), or knowledge of uncertainty analysis is considered a bonus. A good standard of written and spoken English is required.

We are looking for a highly motivated, enthusiastic and independent person with a passion for science to join our team. We offer outstanding working conditions, a high quality of life in Zurich, and an excellent supporting environment.

Please send your application as one single PDF file (motivation letter, complete CV, and names of 2 references) to Rita.Ott@geo.uzh.ch, no later than June 15th, 2017. For further questions, please contact Andreas.Hueni@geo.uzh.ch or Michael.Schaepman@geo.uzh.ch.