



— to society
and policy needs
through plant, food
and energy sciences

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CALL FICHE 1

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Deadline: 1st July 2019, Zurich local time

The RESPONSE Doctoral Programme (DP) «RESPONSE - to society and policy needs through plant, food and energy sciences» is funded by the European Union's Horizon 2020 research and innovation program under the Marie Skłodowska-Curie Grant Agreement No 847585. RESPONSE DP builds on the academic expertise of three worldleading institutions - ETH Zurich, University of Zurich and University of Basel - and the three internationally renowned competence centers Zurich-Basel Plant Science Center (PSC), the World Food System Center and Energy Science Center. RESPONSE DP is centrally managed by the PSC. It will start in February 2020.

Currently, RESPONSE DP is offering **8 early-stage researcher's positions for 36 months (100%)** at the interface of science and policy, as well as science and innovation at one of the three world-leading academic host organization - **ETH Zurich, University of Zurich or University of Basel**. RESPONSE DP will train ESRs to reflect on their role as scientists in society, contributing with evidence to policymaking and to build capacities to address global challenges in the **areas of sustainable food systems, sustainable energy systems and sustainable land use decisions**.

While working in an international, interdisciplinary and innovative research environment in the natural, life and engineering sciences at one of the three host organization, the ESRs will be **co-supervised by renowned Partner Organizations**, for example from industry, public



and civil society organizations, non-governmental organizations or governmental organizations to transfer research results into policy or society.

A **mandatory secondment** (= internship) of 3 to 12 months at selected partner organizations such as MWSchmid GmbH (CH), CIMMYT (MX), German Research Centre for Geosciences GFZ (DE), Bellona Europe (BE), Swiss Energy Foundation (CH), Swiss Federal Office of Energy (CH), Bitplane (CH), Nitidae (FR), WWF (BE) and Barenbrug (FR) is part of each project. The specific time and duration of the secondment is indicated in the individual position announcement (see table below).

Successful candidates will be matriculated at either ETH Zurich, University of Zurich or University of Basel based on the academic supervisor's location with a PhD awarded after successful completion of a PhD thesis. All successful applicants will follow the [PSC PhD Program Science and Policy](#) that is unique in its kind. Through the curriculum of this program, PhD fellows will be trained in the communication of scientific evidence to policy-makers and the public; the involvement of different stakeholder groups as well as in policy development and endorsement in Europe and at global scale.

Open PhD positions

<i>Project title</i>	<i>Research field</i>	<i>Host Org.</i>	<i>Secondment partner</i>
EpiBreed: Unlocking Epigenetic Variation to Breed Sustainable Crops in a Changing Climate (ESR01)	Plant Science, transgenerational epigenetics, bioinformatics, statistics	UZH	MWSchmid GmbH, Switzerland
Wheat responses in changing climates studied by Asian varieties as underexploited genetic and genomic resources (ESR02)	Plant science, bioinformatics	UZH	International Maize and Wheat Improvement Center (CIMMYT, Mexico)
Developing a source-to-sink value chain for Swiss industrial carbon dioxide via a holistic approach (ESR03)	Energy science, social sciences or engineering/system sciences	ETH	German Research Centre for Geosciences GFZ, Germany Bellona Europa, Belgium
Energy transition and the transport sector – assessing the impact of European and national policies on future drive technology mixes, energy use, and emission pathways (ESR04)	Energy science, climate and energy policy, innovation studies	ETH	Swiss Energy Foundation (SES), Switzerland



Engineering the Policy-Enabled Transition to Sustainable Multi-Energy Microgrids (ESR05)	Energy systems, energy economics and policy	ETH	Swiss Federal Office of Energy, Switzerland
Plant reproduction: chromatin-based controls in the reproductive lineage (ESR06)	Plant science, microscopy imaging and image processing, cell biology, plant development	UZH	Bitplane, Switzerland
The role of biodiversity in sustainable energy transitions for charcoal (ESR07)	Land-use decisions, sustainability, social-ecological research and ecology, energy sciences	UZH	Nitidae, France WWF, Belgium
Towards improving forage productivity under future climates (ESR08)	Plant science, Quantitative genetics, statistics, Applied plant breeding	ETH	Barenbrug, France

Eligibility criteria

- Early stage researcher in the first 4 years (full-time equivalent) of their research careers, including the period of research training, starting at the date of obtaining the degree which would formally entitle them to embark on a doctorate either in the country in which the degree was obtained or in the country in which the initial training activities are provided.
- At the time of recruitment (for call 1 = December 1, 2019) by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc.) in Switzerland for more than 12 months in the 3 years immediately before the reference date. Compulsory national service and/or short stays such as holidays are not taken into account.

Application and recruitment

RESPONSE DP guarantees fair recruitment criteria and procedures on the basis of open competition and selection of candidates that show scientific excellence in their CV.

Applications shall include:

- a CV (tabular)
- a personal motivation letter to be uploaded under 'Further documents' in the online application portal
- 2-3 reference letters



- diploma(s) and additional supporting information (e.g. proof of competence in English).
- Within the letter of motivation, the applicant shall:
 - refer to his/her preferred individual research project (i.e. indicate project number(s) ESR xxx)
 - describe his/her motivation to join RESPONSE DP.
- The applicant can start the position earliest February 2020 and shall be available for the position latest in May 2020.

Application needs to be submitted via the online application portal:

<https://join.lszgs.uzh.ch/> (Select the PhD program Science and Policy)

Benefits and Working Conditions

Each RESPONSE position offers an interesting opportunity to work at the interface of science and innovation. While working in an international, interdisciplinary and innovative research environment at University of Zurich, ETH Zurich OR University of Basel (see table above), the ESR will be jointly co-supervised an academic Professional Investigator and the non-academic partner.

The successful candidate will be matriculated and will have a working contract at either University of Zurich, ETH Zurich OR University of Basel (see table above). He/she will work in Switzerland. The secondment will take place in Switzerland or abroad (see table above).

This program offers a three-year (36-month) full-time position (100%) according to the PhD salary regulations of the University Zurich, ETH Zurich OR University of Basel and according to EU regulations for Marie Skłodowska-Curie Early Stage Researchers. The gross salary will not be lower than CHF 3920.



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