

**B2-SOLVIT (Master), Research fellowship at Master's level** for the exercise of functions within the scope of the Research Project "SOLVIT".

**-Preferred requirements:**

- Fieldwork experience based on soil sciences and geomorphology, life cycle assessment and/or hydrological modelling;
- Experience in installing and calibrating field measuring instruments for hydrological and/or erosive processes (rain simulations, hydraulic monitoring (flume, V-notch), erosion plots);
- Laboratory experience with treatment of soil and/or plant samples to determine physicochemical variables (pH, EC, BD, TOC, NPK, etc.)

**-Skills:**

- Experience with teamwork
- Oral and written proficiency in Portuguese and English,
- Training and/or experience with laboratory and fieldwork
- Driving license

**• Tasks:**

- Laboratory and field screening to maximize the restoration capacity of mulch+biochar on soil fertility and soil habitat.
- Field and laboratory assessment of the soil fertility (through CEC, N, P, K and molecular analysis with C-NMR).
- Assessment of the soil habitat status (enzyme activity, microbial DNA, eco-toxicological assays).
- Assessment of the quality of grapes and wines, through metabolomic methods (phenolic, volatile composition, sensory analysis).

**-Literary Qualification: Master's**

- Qualification Description: Master's in agriculture sciences and related areas.