

## The Haute Ecole Arc Conservation-restoration

offers a position as

### Assistant-e HES ou Adjoint-e scientifique

#### MISSION

The chosen candidate will participate, under the supervision of the project leader, to the activities of the Ra&D CORINT project (Elucidating CORrosion of iron by new quantitative multimodal IN-situ Tomography), dealing with the investigation of corrosion phenomena in opaque porous media. The work will be carried out in the framework of the WP4 of this project, focusing on the corrosion of iron archaeological artifacts in soil.

#### SKILLS REQUIRED

- Hold a university Master's degree (Msc) or a PhD in chemistry, physics or material science
- Aptitude for scientific procedure
- Autonomy, organizational and communication skills
- Good level of English (B2)

#### ADDITIONAL ASSETS

- Experience in dealing with archaeological metal artifacts, conservation, characterization and handling procedures.
- Some knowledge of French will be an advantage

#### TASKS

The tasks to be carried out in the framework of the CORINT project WP4A include (non-exhaustive list) :

- Excavation of iron archaeological artifacts, in collaboration with Site et Musée romains d'Avenches.
- Characterization of the artifacts using bimodal neutron and X-rays imaging techniques, in collaboration with Paul Scherrer Institute (PSI).
- Characterization of the artifacts by means of Raman spectroscopy (point analysis and mapping) and data treatment by means of multi-variate methods.
- Documentation of the artifacts by means of optical microscopy.
- Treatment of the artifacts using traditional and innovative stabilization and corrosion inhibition treatments.
- Presentation of the obtained results at international conference and peer review scientific articles.

Application deadline	: 15.03.2025
Contract duration	: 12 months
Starting date:	: As soon as possible
Working place	: Campus Arc 2, Neuchâtel
Function	: Assistant-e HES (Msc) at 85% / Adjoint-e scientifique (PhD) at 70%

Questions about the position: [laura.brambilla@he-arc.ch](mailto:laura.brambilla@he-arc.ch), project leader. For administrative issues related to the work place: [isabelle.rerat@he-arc.ch](mailto:isabelle.rerat@he-arc.ch), human resources delegate.

The application file should be sent to [isabelle.rerat@he-arc.ch](mailto:isabelle.rerat@he-arc.ch) and include a letter of motivation, copies of titles, curriculum vitae and any references. Publications and other academic works that the applicant would like to be considered in the evaluation can be added.