

The University of Geneva, Switzerland, announces a PhD and postdoctoral position on star-forming galaxies in the framework of the Swiss-French collaborative project "speXion" co-funded by the SNSF and ANR.

The overall goals of speXion are to understand extremely metal-deficient galaxies, their radiation fields including up to X-rays, the feedback processes dominating these galaxies, and their contribution to cosmic reionization. The collaboration will use multi-wavelength observations from JWST, HST, XMM, Chandra, VLA, and other facilities, and state-of-the-art spectral modeling tools.

The Post-doc will work on available multi-wavelength observations of metal-poor star-forming galaxies at low- and intermediate redshift, analyze and interpret interstellar medium signatures of these galaxies. The candidate will also be encouraged to develop an independent research programme. The PhD student will primarily work on the modeling and interpretation of multi-wavelength data, including their overall SEDs and emission lines, and observations from high-to- low energies (X-rays to radio).

Both candidates will primarily work in Geneva with the group of Prof. Daniel Schaerer, within the Swiss-French collaboration co-lead by Drs. Vianney Lebouteiller (CEA, Saclay) and Hakim Atek (IAP, Paris), and with other international collaborators.

The Geneva Observatory carries out observational, interpretative and theoretical research in the fields of extra-solar planets, stellar physics, high energy astrophysics, galaxy evolution, and observational cosmology.

The appointments will start in sept-oct 2025. The duration is up to three years for the post-doc, and 4 years for the PhD. Qualified candidates are encouraged to send the following their application including the following content in a *single pdf* file via email to the above address.

- Post-doc: CV, publication list, description of research experience and interests, contact information of 3 references
- PhD student: CV, motivation letter, course transcripts, and contact information of 2-3 references

Applications received by March 17, 2025 will receive consideration.

Informal enquiries with Daniel Schaerer (daniel.schaerer@unige.ch) are welcome.

For information on the research teams visit

<https://www.unige.ch/sciences/astro/starbursts/en/>

<https://irfu.cea.fr/en/dap/lfemi/star-formation-and-interstellar-medium/>

<http://www.iap.fr/recherche/groupe/groupe-1.php?nom=galaxies&langue=en>

Included Benefits:

Standard Swiss Social Security, Accident Insurance and Pension contributions.