

2 PhD positions on gravitational wave, compact object and stellar astrophysics at the Geneva Observatory of the University of Geneva

Applications are invited for 2 PhD student positions in theoretical and computational astrophysics at the Department of Astronomy of the University of Geneva to start in fall 2018. The successful candidates will work within the group of Prof. Tassos Fragos on the fields of compact-object formation, gravitational wave astrophysics and the evolution of massive binary stars.

The potential research projects focus on understanding the formation of binaries containing compact objects, black holes and neutron stars, including gravitational wave sources and accreting compact objects. The candidates will also contribute to the development of next-generation simulation tools for the study of compact-object binary populations. Furthermore, they will be members of an international network of collaborating institutions in Europe and the United States, which will give them the opportunity for extended visits in one or more of the collaborating institutions.

The Geneva Observatory and the associated Laboratory of Astrophysics of the Swiss Federal Institute of Technology in Lausanne (EPFL) carry out observational, interpretative, and theoretical research in the fields of extra-solar planets, stellar physics, high energy astrophysics, galaxy evolution and dynamics, and observational cosmology, providing a rich and vibrant research environment.

Applications are invited from candidates with a solid background in physics or astronomy and should consist of a cover letter explaining the motivation for seeking a PhD in theoretical and computational astrophysics and especially the aforementioned research fields, a statement outlining any research experience so far (<1 page each), a CV, and a copy of the Bachelor and Master academic record (exams, theses, and grades). Candidates should also provide names and e-mail addresses of at least two references. Applications should be sent as a single PDF file to anastasios.fragkos@unige.ch.

Complete applications received by 15 April 2018 will receive full consideration, but the search will remain open until the positions are filled. Preliminary inquiries may be addressed via e-mail to anastasios.fragkos@unige.ch.

Included Benefits:

Generous Salary (~50'000-60'000 CHF), Standard Swiss Social Security, Accident Insurance, Pension contributions, Maternal leave and access to family support programs (see: <http://www.snf.ch/en/funding/supplementary-measures/flexibility-grant/Pages/default.aspx#>)