

# Multi-Messenger Astronomy Postdoctoral Position

Astronomical Institute Anton Pannekoek (API), University of Amsterdam

Deadline for applications: 16 November 2015

Upcoming facilities like CTA, SKA, KM3NeT and EGO will open a new era by providing a unique multi-messenger view of astrophysical phenomena. Very soon we will be using low- and high-energy photons as well as neutrinos and gravitational waves simultaneously to study high-energy processes in the universe.

The CTA group of the Astronomical Institute of the University of Amsterdam has an immediate opening for a post-doctoral research position in high-energy astrophysics in the framework of ASTERICS (<http://asterics2020.eu/>), a project funded within the Horizon 2020 program of the European Commission. The applicant will be involved in the ASTERICS work package connecting large research infrastructures and develop multi-messenger methods.

The project is about implementing and testing alert mechanisms specifically for e.g. LOFAR, EGO, CTA, KM3NeT. A multi-messenger science case study for CTA is to be pursued, and procedures for automated follow-up observations shall be implemented. Depending on the candidate's science interests, the project can focus on a mix of the above-mentioned facilities.

The gamma-ray group of API is part of the GRAPPA institute ([www.grappa-uva.nl](http://www.grappa-uva.nl)), a new cross-disciplinary activity for astroparticle physics. Research at the GRAPPA institute covers dark matter, dark energy, neutrinos, cosmic rays, as well as more generally string theory, cosmology, high-energy astrophysics and high-energy particle physics. Participation in gamma-ray or radio (LOFAR) research within GRAPPA is encouraged.

Applicants should hold (or soon hold) a PhD in astrophysics, experimental particle physics, or astroparticle physics, obtained no more than four years prior to starting the position. The position is available from January 2016 onwards, for a period of 2 years, extendable by 1 year depending on performance and funding. The salary is set by Dutch labor law, including generous benefits, and depends on experience. The standard, generous Dutch social benefits apply to this position including collective health insurance, 16 weeks paid maternity leave, childcare subsidies, pension, and about 35 days annual paid vacation.

The evaluation of the applications (a single pdf file with cover letter, CV including publications, research statement, email addresses of three people who can provide letters of recommendation) will start on 16 November 2015, and will continue until the position is filled. The application documents as well as further questions shall be directed to David Berge, [d.berge \[at\] uva.nl](mailto:d.berge@uva.nl).