

RadioNet support for organisers of training events

Application form

EVENT INFORMATION	
TITLE	North-European Radio Astronomy School 2020
PLACE	Science Centre Tuorla (previously Tuorla Observatory), University of Turku, Finland
ORGANISER'S INSTITUTE NAME	University of Turku / Aalto University / Finnish Centre for Astronomy with ESO Talvikki Hovatta talvikki.hovatta@utu.fi / Silja Pohjolainen silpoh@utu.fi
DATE	May 2020
NO. OF PARTICIPANTS	20 students + 9-10 teachers / tutors
TOTAL EVENT COST	13 525 €
OTHER SOURCES OF FUNDING	Contribution from UTU/FINCA: computer facilities, local teachers Contribution from other Finnish universities: teachers Turku University Foundation: Costs for foreign teachers (to be applied for) Other Finnish foundation: Travel support for students (to be applied for)
REQUEST (max. 2 pages)	
Requested contribution	3000 € RadioNet has already given 4000 € of support for the event in the 2017 call. This is a request for additional funding, as the university no longer offers free lecture halls, and the contribution was not enough to cover all local costs for the students. The event was also delayed due to the change of Tuorla Observatory to Science Centre Tuorla in 2018, and the related uncertainty in whether the event can be held at the same premises. This has also slightly increased some other costs. We have also now decided to move the event to spring so that it does not coincide with ERIS / IRAM schools that are held in the Autumn.
Use of the RadioNet contribution	<p>The RadioNet contribution will be used to support the attendance of the students. We plan to cover the accommodation and meals of 20 students, for which we have budgeted 4200 euros for accommodation (6 nights, includes breakfast) and 2300 euros for meals (6 days, lunch and dinner). In addition, the RadioNet contribution would be used to cover the cost of the lecture hall at the premises of the Science Centre Tuorla (previously Tuorla Observatory), in total of 500€. This brings the total RadioNet contribution to 7000€, from which we have already been granted 4000€, and now request 3000€.</p> <p>We will also apply for funding from other sources. For example, we plan to give partial travel support for students coming from institutes with less funding available for travel, in total of 2500 euros. This we will apply for from a Finnish foundation.</p> <p>We will also cover travel costs for instructors from other countries, for which we will apply for funding from the Turku University foundation. We plan to invite 3 instructors from abroad, and estimate the total travel costs to be 1000 euros. We will also cover the accommodation and meals of the foreign instructors and 3 instructors from other Finnish universities with a total of 3025 euros. This includes lunches for all instructors (9-10 persons) every day of the school.</p> <p>University of Turku will provide computing facilities, in addition to teachers. Other Finnish universities will also provide teachers and tutors for the school.</p>

	The school directly supports the goal of RadioNet to train the next generation of astronomers to use the current state-of-the-art and future radio astronomy facilities.
Impact of training	<p>A similar school was organized in 2015 at Tuorla Observatory with great success. The webpage of the 2015 school can be found here: http://www.utu.fi/en/units/finca/research/Tuorla2015/Pages/home.aspx</p> <p>The school will cover basics of radio/sub-mm astronomy and interferometry, including observations, modelling and data analysis. The emphasis will be on current European facilities, both single-dish instruments (e.g., Effelsberg and APEX) and interferometers (e.g., LOFAR, ALMA, EVN).</p> <p>In addition to local radio astronomy experts from Tuorla Observatory and Metsähovi Radio Observatory, we plan to invite instructors from the European institutes hosting these instruments. In 2015 we already had experts from the ALMA Nordic Arc node. This time, we also plan to invite instructors from JIVE or ASTRON to cover LOFAR and EVN, and Max Planck Institute for Radioastronomy to cover Effelsberg and APEX.</p> <p>In 2015, in addition to four days of lectures, the school also included an in-depth project work that took the entire week. This turned out to be very successful way of involving the students and was highly motivating. We plan to include such a project work this time as well, and devote a full day of the school to student presentations.</p> <p>After attending the school, the students will know the basics of radio astronomy and interferometry techniques. They will be familiar with European state-of-the-art instruments, and be capable of applying for observing time, and using the data in their research.</p>
Accessibility	The school is open to any student or young researcher interested in radio/sub-mm astronomy. If there are more than 20 applicants, we will request for reference letters to aid in selecting the candidates for the school.
Ethics	<p>The school is mainly intended for participants from the Nordic and Baltic countries, but students from any country are welcome to apply. If there are more than 20 applicants, we will try to obtain a gender balance among the attendees. The selection will not be primarily based on the country of origin so that students from all countries will have equal possibility to attend. We aim at offering (partial) travel support for students from less developed countries.</p> <p>Finland has a large number of female experts in radio astronomy, and we expect to reach gender balance also among the teachers and tutors. We will also take this into account when deciding on who to invite as foreign lecturers.</p>
<p>Privacy Policy: With signing this template and applying for RadioNet funding, I accept the <u>Privacy Policy of RadioNet</u>, which is based on the EU General Data Protection Regulation (GDPR).</p>	
Place & Date:	Signature of the applicant:
Turku 31.1.2019	