



## RadioNet support for training events Application form

EVENT INFORMATION	
TITLE	North-European Radio Astronomy School 2018
PLACE	Tuorla Observatory, University of Turku, Finland
ORGANISER	Tuorla Observatory, University of Turku, Finland
DATE	September / October 2018 (to be decided)
NO. OF PARTICIPANTS	20 students, 9-10 lecturers / tutors
TOTAL EVENT COST	12 000 (+ lecture hall, computers, teachers' salary)
OTHER SOURCES OF FUNDING	Contribution from UTU: lecture hall and computer facilities, local teachers Contribution from other universities: teachers
<b>REQUEST</b> (max. 2 pages)	
Requested contribution	<i>Please specify the level of the requested RadioNet support [EURO]</i> 12 000
Use of the RadioNet contribution	<i>Please specify the use of the RadioNet contribution, e.g. approximately how many people will be supported, is this students, tutors, etc.? Which other costs exist? What is the overall budget for the event? How will this event contribute to RadioNet goals?<sup>1</sup></i>  The RadioNet contribution will be primarily used to support the attendance of the students. We plan to cover the accommodation and meals of 20 students, for which we have budgeted 4164 euros for accommodation (6 nights, includes breakfast) and 2160 euros for meals (6 days, lunch and dinner).  We would also give partial travel support for students coming from institutes with less funding available for travel, in total of 2500 euros. In total, the student support is then 8824 euros.  We will also cover travel costs for instructors from other countries. 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 2176 euros. This includes lunches for all instructors (9-10 persons) every day of the school.  University of Turku will provide lecture halls and computing facilities, in addition to teachers. Other Finnish universities will also provide teachers and tutors for the school.  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	<i>Please outline the anticipated impact of the event e.g. on knowledge transfer to the</i>

<sup>1</sup> For more information about the RadioNet training programme please contact the Training activity leader – Dr. Anita Richards (a.m.s.richards@manchester.ac.uk).

	<p><i>next generation of scientists and engineers.</i></p> <p>A similar school was organized in 2015 at Tuorla Observatory with great success. The webpage of the 2015 school can be found here:  <a href="http://www.utu.fi/en/units/finca/research/Tuorla2015/Pages/home.aspx">http://www.utu.fi/en/units/finca/research/Tuorla2015/Pages/home.aspx</a></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 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	<p><i>Please specify the selection criteria for attendees</i></p> <p>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.</p>
Ethics	<p><i>Please explain how you will encourage ethical issues such as gender, ethnic diversity, reaching new communities, as relevant.</i></p> <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 will offer (partial) travel support for students from less developed countries.</p>