

## Science with and for Society – Project Partner Search Form

### CALL: Science with and for Society 2018

- I offer my expertise to participate as a Partner in a Project
- I am planning to coordinate a project and I am looking for Project Partners

Topics
<p><b>Strategic orientation 1. Accelerating and catalysing processes of institutional change</b></p> <p><input checked="" type="checkbox"/> SwafS-01-2018-2019: Open schooling and collaboration on science education</p> <p><input type="checkbox"/> SwafS-02-2018: Innovative methods for teaching ethics and research integrity</p> <p><input type="checkbox"/> SwafS-03-2018: Developing research integrity standard operating procedures</p> <p><input type="checkbox"/> SwafS-04-2018: Encouraging the re-use of research data generated by publically funded research projects</p> <p><input type="checkbox"/> SwafS-05-2018-2019: Grounding RRI practices in research and innovation funding and performing organisations</p>
<p><b>Strategic orientation 2. Stepping up support to Gender Equality in Research &amp; Innovation policy</b></p> <p><input type="checkbox"/> SwafS-09-2018-2019: Supporting research organisations to implement gender equality plans</p> <p><input type="checkbox"/> SwafS-10-2018: Analysing gender gaps and biases in the allocation of grants</p> <p><input type="checkbox"/> SwafS-13-2018: Gender Equality Academy and dissemination of gender knowledge across Europe</p>
<p><b>Strategic orientation 3. Building the territorial dimension of SwafS partnerships</b></p> <p><input type="checkbox"/> SwafS-14-2018-2019: Supporting the development of territorial Responsible Research and Innovation</p> <p><input type="checkbox"/> SwafS-22-2018: Mobilising Research Excellence in EU Outermost Regions</p>
<p><b>Strategic orientation 4. Exploring and supporting citizen science</b></p> <p><input checked="" type="checkbox"/> SwafS-15-2018-2019: Exploring and supporting citizen science</p>
<p><b>Strategic orientation 5. Building the knowledge base for SwafS</b></p> <p><input type="checkbox"/> SwafS-18-2018: Taking stock of the application of the precautionary principle in R&amp;I</p> <p><input checked="" type="checkbox"/> SwafS-19-2018-2019: Taking stock and re-examining the role of science communication</p> <p><input checked="" type="checkbox"/> SwafS-20-2018-2019: Building the SwafS knowledge base</p> <p><input type="checkbox"/> SwafS-21-2018: Advancing the Monitoring of the Evolution and Benefits of Responsible Research and Innovation</p>

### 1) PROJECT INFORMATION

**Field of expertise related to the topic:** The Faculty of Physics of Sofia University has a long lasting and vast experience both in formal and non – formal education in physics. We offer 13 bachelor programs, more than 20 MSc programs and many PhD programs covering the entire area of physics: from nuclear physics and elementary particle physics to astronomy and from

microelectronics to theoretical physics. The Department of methodology in physics education is specialized in teaching physics for physics teachers (bachelor, MSc and PhD degrees). They also offer one year courses for teachers' specialization.

Each year we hold several events aimed mainly at teachers and pupils but also at the general public. At the end of April the Open doors day takes place. This one day event includes a series of lectures on actual topics in physics for the general public, interesting and entertaining experiments for younger pupils and more serious experiments for students in the secondary schools aged 12-17 years. A summer school for teachers takes place in July with 50-60 teachers in physics from all over Bulgaria. During a week they are given lectures and do practical works on a specific topic (nanoscience and nanotechnology, photonics, physics in and with a smartphone, physics of the Earth and Universe are the latest ones). Regular two days courses are organized with them mainly on practical works in school. In November, two days event is organized during which eight lectures on general problems and history of physics are presented for students and general public. Two special events devoted to physics experiments with schoolchildren are held every year. The first one is the physics experimental Olympiad. This is a unique one day event during which all the participants (150-200) do the same experiment and the aim is usually to find out some fundamental physical quantity (speed of light in vacuum for example or Boltzmann constant). Students (secondary schools) from Macedonia, Serbia, Hungary, Russia, Kazakhstan and other countries have participated in the Olympiad. The other event is devoted to developing setups for the student laboratory and takes place during the spring. Small teams of 2-4 students prepare setups and gather in the Faculty on a Saturday to demonstrate experiments in physics. For this event guests from several countries come as well.

Apart from all these events held in the Faculty we are very active in visiting schools all over the country performing demonstrations in physics and lectures. Last year people from our faculty visited schools in Sofia, Pleven, Blagoevgrad, Burgas, Teteven, Varna, Stara Zagora, Haskovo and other cities and towns. The Department of Astronomy is particularly engaged in this activity. Each year they organize a summer school of Astronomy in Rhodope Mountains.

We are also regular participants in major national and international events devoted to science: Night of Science, Science Fair (organized by British Council –Bulgaria), Science Party (organized by Muzeiko children museum) and many others. Our students are very active in the Famelab contest (Laboratory for fame organized by British Council) and have won many prestigious awards, including first place in the international contest.

- Potential contribution to the project:**
1. basic work with the students in different schools all over Bulgaria including different contests between schools
  2. training of teachers in physics and astronomy beyond the mandatory material and including science and entertainment
  3. Short educational and science films for general public, arts and science films and other TV programs (Sofia University has a well developed TV licensed for educational cultural and youth policy programs at national level)
  4. organizing open events dedicated to science promotion in different cities and towns

**Role in the project:**

- |  |   |                                |
|--|---|--------------------------------|
| <input checked="" type="checkbox"/> Research | <input checked="" type="checkbox"/> Dissemination | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Training | <input type="checkbox"/> Technology Development   |                                |

Project idea: The idea of the project is to bring together scientists (mainly from natural sciences), specialists in communication of science, mass communications, sociologists, psychologists and people working in TV and radio from the university, and people from several museums, ecological organizations, local authorities and business. The main target groups are children and students. In



order to get to these groups we need to work with two other groups: teachers and parents and use them as “transmitters”. Teachers will be trained and involved in training.

The main messages we would like to deliver to the public are:

- In the last five centuries science has become a direct vehicle for improving quality of life and there is no reason for it to stop now. It acts at different levels – from everyday life to highly sophisticated theories and advanced technologies.
- “technology manufactures not gadgets, but social change” (James Bourke The impact of science on society, NASA Technical and information branch 1985);
- science is an exciting intellectual adventure;
- training in science is an asset for itself but is also a fascinating and well paid way of making your living by working with universities and high technological companies, or by setting your own business.

Project description:

Already experience as a Coordinator:  yes  no

As a Partner:  yes  no

If “yes”, which project: Project ID: 270843 Funded under:FP7-ICT; MetroRADON - Metrology for Radon Monitoring (EMPIR 16ENV10), Horizon 2020

Other partners in consortium already identified (with countries):

## 2) TARGET COORDINATOR / PARTNER SOUGHT

**Organisation details:**

Higher education / university

Industry / SME

Research institution

Other

NGO

Please specify:

Education

**We are looking for following Expertise / Competencies:**

## 3) CONTACT DETAILS

Contact Person:

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Short profile of the Organisation: Sofia University is the oldest and most prestigious University in Bulgaria covering natural sciences, human sciences, law and medicine





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**Date:** 01.02.2018

**The offer is valid until:**

I agree with publication of my contact data on “Science with and for Society” network website

YES     NO

**PLEASE FILL THE FORM AND RETURN IT TO YOUR HORIZON 2020 NATIONAL CONTACT POINT FOR SCIENCE WITH AND FOR SOCIETY.**