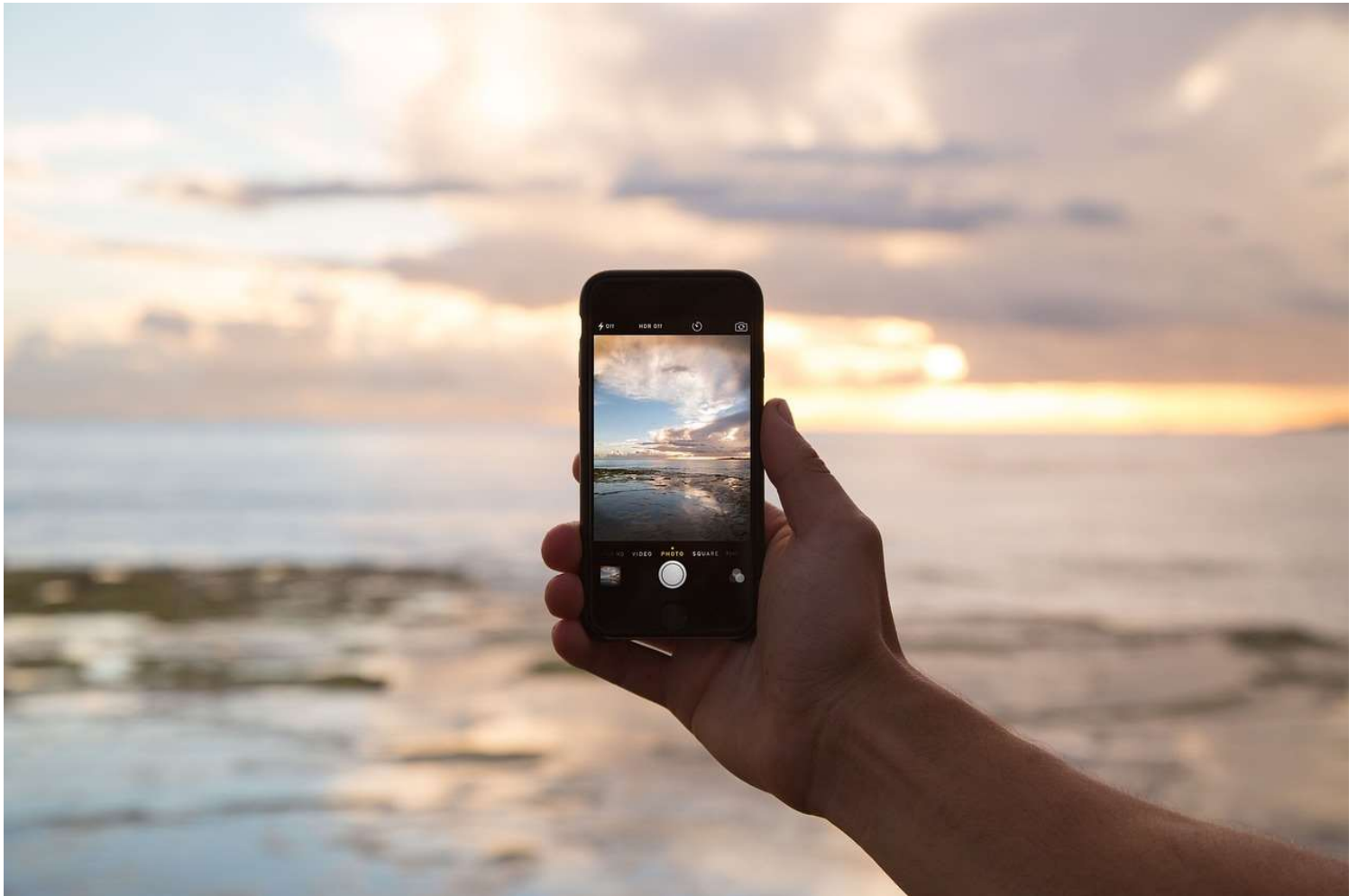


TRIANGLE



Applications and
Devices Benchmarking



5G Applications and Devices Benchmarking TRIANGLE

Open Call for Experiments OC5: Application Instructions



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1 Triangle Open Calls Objective

The TRIANGLE project is using open calls to support innovative experiments from industry, [FIRE](#) and [5G-PPP](#) projects in order to promote the usage of the testing framework and its partial or total deployment in other facilities. The Triangle testbed allows application developers and device manufacturers to test their applications and devices on a 5G network and have those devices benchmarked in terms of performance and other KPIs.

The Triangle project <http://triangle-project.eu> has a fifth open call for experiments only. We are no longer accepting extensions on the testbed.

This document outlines the instructions for experiments. The main objective of the fifth open call is testing the Triangle testbed with experiments that are co-created with companies such as application developers and device manufacturers. Example experiments could include application developers testing 5G scenarios such as low latency to facilitate VR, or an IoT device maker who wants to benchmark their devices against other low power devices.

The experiments will help develop the Triangle testbed as a whole to match the needs of experimenters, and will evolve the technical integration in the Triangle testbed at Malaga (Spain).

For more information about the current capabilities of the testbed and what types of experiments it can run see this link <http://triangle-project.eu/tools>

Triangle is funded by the European Commission and is subject to the regulations established in the Horizon 2020 programme¹.

¹ Conditions of participation and funding are those of Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020), as defined principally in Regulation (EC) No 1290/2013 of the European Parliament and the Council of 11th December 2013 laying down the rules for the participation of undertakings, research centres and universities in actions under the Horizon 2020 Programme and exploitation and dissemination results (2014 - 2020). More information can be found at the [rules for the participation and dissemination in Horizon 2020](#).

This Guide for Applicants does not supersede the rules and conditions laid out, in particular, in Council and Parliament Decisions relevant to the Horizon 2020 Research and Innovation Programme of the European Commission.



2 Application process

2.1 Who can apply?

The call is open to individuals, associations, organisations or businesses legally registered in a member state of the [European Union](#) or in an [H2020 associated country](#) or in a [developing country](#). Applications may be made as an “Experiment Group” bringing together any combination of the above entities. A complete list of these countries is available here http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf.

Each Experiment Group will have an appointed Experiment Lead, who coordinates the group and is responsible for providing the Triangle project management with reports and feedback for the relevant European Commission auditing.

Successful applicants who have been awarded funding are expected to provide proof of their registration in one of the countries mentioned (for example, by submitting each participant’s legal registration number and a Participant Identification Code (PIC) issued by the European Union; or a business registration extract for organisations). In addition, although there is no funding for experimentation there is funding for travel and expenses and so successful applicants will be required to sign the Triangle experiment agreement (which can be read at

<http://www.triangle-project.eu/experiments/AgreementExperiments.pdf> Triangle partners are not eligible for funding.



2.2 Prepare and submit a proposal

Proposals are submitted in a one-stage process that means that applicants submit a full proposal before the deadline. Potential applicants are encouraged to contact the Triangle to discuss the suitability of their application proposal by contacting us at opencall@triangle-project.eu. Experimenters are required to submit proposals in English. Proposals submitted in any other language will not be eligible.

Main information requested in your proposal:

1. Title of your experiment
2. Your idea and experiment objective, this should indicate what type of testing is needed (max. 3.000 characters)
3. A list of activities which you propose and your time plan, aligned with the experimentation period – it can be of any length between April 1st, 2018 to July 1st, 2018. Please explicitly list what you consider to be the key milestones and deliverables within this plan (max. 1500 characters). You can also provide an optional 1 page PDF planning document.
4. Describe your idea and testing objectives from using the Triangle testbed, outline what KPIs are to be measured. Find more information about the Triangle tools at <http://triangle-project.eu/tools> (max. 3.000 characters)
5. Your Experiment Group: organisation, skills and resources you have (max. 3.000 characters)

Your budget for travel costs related to your application.

Application steps:

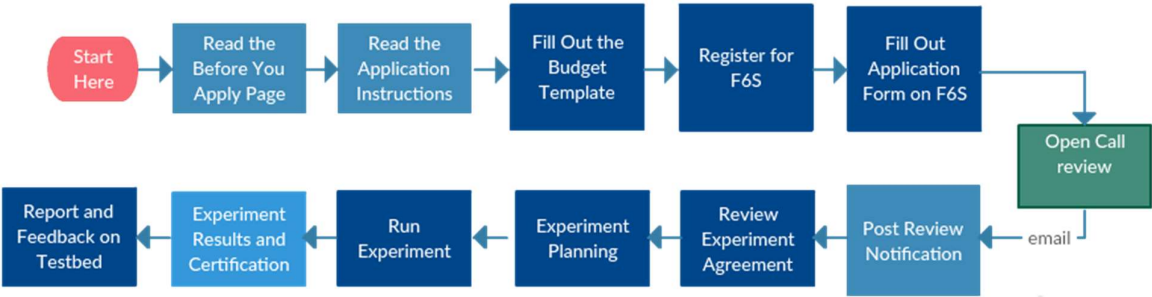
- Step 1: Visit and review the instructions at <http://triangle-project.eu/beforeApplyingExperiments>
- Step 2: Prepare your application. Go to <http://www.f6s.com/triangleexperiments/apply>, sign up for an account (if you do not already have an f6s account) and complete the application form.
- Step 3: You're done! You'll hear back from us by email by March 20th, 2018.

If you discover an error in your proposal, you may modify your application, provided the call deadline has not passed. Should this happen, please contact opencall@triangle-project.eu in order to have your application unlocked. Only the final version received before the call deadline will be considered in the evaluation.

Triangle may provide feedback before the deadline based on an intermediate review process.

Proposals must be received by **March 11th**, 2018 at **midnight CET** (Brussels time) for the fixed open call. Proposals that are sent in after this date or which are incomplete will not be evaluated.

The Application process is outlined below.





2.3 Funding conditions

2.3.1 funding available and activities

The fifth open call will only fund travel and expenses up to a max of 20,000 € for one experiment with a total budget for travel and expenses for all applicants of 40,000 €. Travel and expenses will be paid on submission of justifiable reasons and reasons at the end of the experimentation period.

The final report requires that experimenters provide Triangle with feedback on their experiments and the platform tools they have used. Final presentation/demo will be required at Annual Triangle Audit and travel expenses will be reimbursed as part of the overall allocated budget.



2.3.2 Which travel and expenses costs are you allowed to include in your budget?

For a cost within your project to be eligible for funding it must:

- be incurred and paid between your project start and end dates.
- be directly related to the activities listed
- be best value for money
- be indicated in the estimated budget
- be incurred in connection with the action as described in your project application and necessary for its implementation
- be identifiable and verifiable, in particular recorded in your accounts and in accordance with the accounting standards applicable in your country and according to your organization's usual cost accounting practices
- comply with the applicable national law on taxes, labour and social security

The total amount will be reviewed before approval for funding. The reviewers can decide to fund your proposal with a reduced amount.



3 Evaluation process

3.1 Who will evaluate my proposal?

Your proposal will be checked to ensure that it meets requirements before it is accepted or rejected by the project.

Technical representatives from Triangle will examine the highest ranked applications. This will help assessing whether the technical facilities are available so the experiment can be carried out successfully. The Triangle consortium reserves the right to refuse an experiment on technical or feasibility grounds.

The Triangle representatives will provide any feedback and give a score for each of the evaluation criteria (described in the section below). A ranking list will be assembled with all proposals that score above the threshold of 10 out 15.

In case of applications receiving an equal score, they will prioritise the experiments' value in testing the Triangle testbed facilities.

3.2 Ethics and Privacy Assessment

An Ethics and Privacy Board will check all proposals for ethical and privacy issues. Your proposal can therefore be rejected for ethical and privacy reasons only, so please make sure that these issues are properly addressed.

Notifications on applications acceptance or rejections will together with any feedback be sent out by March 20th, 2018.



3.3 How is my application evaluated?

The applications will be evaluated based on three aspects: the quality of your idea, the expected effect or impact of your proposed experiment, and whether your plan is feasible (i.e. is it realistic in light of the technical facilities available, as well as in regards to time, human and financial resources). Below we list points evaluators will consider under each of these aspects.

Idea (0-5 points)

- Have you described your idea convincingly?
- Does your proposed idea include innovative elements (for example, development of new products, processes, data or services, adapting a solution to a new context...)?
- Is your idea enabled by 5G?

What is the impact of your idea (0-5 points)?

- In which ways can your experiment use the features of the Triangle testbed?
- Will your application/device/system benefit from 5G technologies, in particular, what features/improvements would it bring beyond existing technologies
- Relevance of the idea to the [NGMN 5G Use Cases](#) and application areas that have been identified in [Annex A](#)
- The impact of the KPIs (Key Performance Indicators) which you anticipate will be measured
- How does your idea impact the European societal development towards 2020?

Feasibility of your idea (0-5 points)

- Is your idea technically ready for experimentation?
- Need for testing/Are the Triangle testbed tools available suitable for your experiment?
- Is the experience and skills you and your team have sufficient to include, test, verify, and support the technology?
- Is your budget and plan realistic in relation to the activities listed?



4 Timeline

Fifth Experiments call 2018 key dates:

- February 1st, 2018 – Fifth fixed term call opens
- March 11th, 2018, midnight CET – Open call final deadline
- March 20th, 2018 – Applicant notification
- April 1st, 2018 – Start of experimentation period
- July 1st, 2018 – End of experimentation period



5 Support Options

Frequently asked questions (FAQ)

The frequently asked questions section can be read here <http://triangle-project.eu/FAQ>. It will be updated continuously.

Open call helpdesk

The answers that you can't find in the FAQ section can be submitted by contacting opencall@triangle-project.eu, where you can get support regarding technical matters or the proposal.

Open call support

To assist you with any detailed questions you may have about the open call process, the consortium will publish content on the project website and on social media channels. It may also be possible to discuss with members of the consortium on calls, webinars or potentially in person by prior arrangement.

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Project partners:

