



Call for an evaluator for the European Project Hypatia

Deadline to submit proposals: 26 September, 2015

Hypatia is a three-year European Commission-funded project (2015-2018) coordinated by science center NEMO in the Netherlands. Hypatia will bring about lasting change in the way schools, science museums, research institutions and industry engage teenage girls in STEM across Europe. Bringing these stakeholders together with gender experts and teenagers themselves. Hypatia will develop, pilot and disseminate a unique modular toolkit of activities and guidelines for engaging teenagers in STEM in a gender inclusive way. These innovative activities based on existing European good practices will be implemented in 14 EU countries and further afield in schools, science museums and by institutions in research and industry thanks to hubs of stakeholders strengthened through the project. The activities will have a central focus on gender inclusive ways of communicating STEM empowering teenage girls and exploring the range of skills that are needed for the great variety of STEM studies and careers open to young people. The Hypatia hubs will provide a sustainable basis for these activities to be carried out on the long term with a focus on dissemination through networks and stakeholder engagement allowing the project impact to multiply.

In order to ensure an objective evaluation of the results reached in the HYPATIA project, Science center NEMO will subcontract an independent entity to fulfill the task.

Background Information

Programme: Horizon 2020, Science with and for Society

Theme: GERI-1-2014

Project: HYPATIA

Period under consideration 06-10-2015 to 31-07-2018

Activity to be evaluated: the expected impact of the project and the spreading of excellence, exploiting results and disseminating knowledge, as specified in the Description of Action.

HYPATIA Project Summary

Research shows that the way sciences are communicated to young people, in and out of school, is not yet gender inclusive. What is more, young Europeans, both boys and girls, still have very little idea of the variety of careers in science, technology, engineering and mathematics (STEM), and the skills that are relevant for those paths. These two factors have a significant influence on the number of girls that choose science-related studies and careers.

The need for change today is increasingly urgent. In the coming years, with Europe's knowledge economy developing and new technologies on the rise, skills in STEM will be needed for a broader range of careers than ever before. As Responsible Research and Innovation comes to the forefront of Europe's agenda, STEM careers need to become



increasingly oriented towards society's needs, opening up new dimensions in terms of the skillsets required.

To make Europe competitive, it is therefore imperative to expose more girls to the variety of STEM-related careers open to them, and to empower them in order to spark their interest and make the connection with their lives and their own skills. In order to achieve our goal we need to address the way all sciences are communicated, the way STEM careers are presented, and aim to make them more gender inclusive.

The campaign "Science: It's A Girl Thing!" and gender projects such as the TWIST and GAPP have done a great deal to raise awareness of the issue of gender in STEM. Hypatia takes these initiatives as a starting point, continuing to raise awareness while also making long-term changes in the way STEM is communicated by a whole range of stakeholders. Where "Science: It's A Girl Thing!" caught the public's attention, Hypatia positions itself as an institutional campaign to ensure principles of gender inclusivity are embedded in the activities of key organisations across Europe.

Hypatia will engage 13-18 year old girls both in and out of the school environment. The focus will be on engaging these teenagers in STEM in a gender-inclusive way, and addressing the attitudes of STEM education professionals towards more gender-inclusive practices. In order to do this, Hypatia brings together science centres and museums, schools, research institutions and industry with gender experts and teenagers themselves. These groups of stakeholders will work together on a national and European level through hubs, co-developing the content and co-organising the activities.

The project draws up a plan for awareness, action and advocacy around two key activities:

- Development of expert toolkits for schools, museums, research institutions and industry. These ready-to-use modules will feature a series of workshops and hands-on activities aimed at teenagers that teachers, informal learning organisations, researchers and industry will implement, alongside guidelines on institutional change for gender inclusion. The toolkit will be co-developed by science centres and museums in collaboration with gender experts, teachers, research, industry and panels of teenagers.
- A set of seminars across 14 European countries bringing together headteachers, museum professionals, researchers, industry professionals and other related stakeholders to discuss how the toolkit should be implemented, ensuring buy-in from the toolkit's future users.

A broad impact across Europe will be ensured, with 14 countries engaged directly, reaching the whole of Europe and further afield through Ecsite, Scientix and related networks. Sustainability will be ensured through the creation of national hubs, working together to make STEM communication gender-inclusive.



Objectives and scope of the Evaluation

Evaluation will need to give project-wide feedback on the progress towards objectives of the project and to provide input on the quality of the project materials and activities as they develop as well as assessing the impact the project has reached.

The evaluation will focus on the complete range of engaged stakeholders.

Strategic Impact the project aims to reach:

The work of the subcontractor will be closely monitored and quality assured by the HYPATIA consortium, guaranteeing that the work is carried out according to the aims and the general goals of the project.

| Expected impact | How Hypatia will achieve this impact |
|---|---|
| Change the way science is communicated | The project will reach schools, informal learning organisations, research institutions and industry activities. It will produce sets of activities and guidelines about how to communicate science with their audiences ensuring the gender aspect is taken on board. The project will measure the number of institutions that adopt the new tools. |
| Increase the participation and interest of girls in STEM | The activities that will be used will be based on existing good practices related to gender in STEM. Now these activities will be implemented in much larger scale. |
| Encourage sustainable collaboration among schools, science museums, research centres on gender equality and science | The creation of hubs in each participating country and the existing connection among partners will ensure a long-term collaboration, supported through the online community Scientix. The wealth of existing activities and the importance given to advocacy and sustainability will ensure a long and strong collaboration among stakeholders. |
| Contribute towards European Research Area objectives (increase female researchers in Europe) | By giving a different perspective on STEM careers to both young boys and girls today we contribute to the increase of female researchers in the future. |
| Contribute to the Innovation Union Objectives (better match skills to available jobs) | Discovering young people's skills in relation to current and future STEM careers is a particular focus of the proposal, with a direct relevance to gender. A set of activities will be directly devoted to this, including the Find Your Skills card game. |



Main Users and Stakeholders of the evaluation

This evaluation will require the establishment of regular contacts with the NEMO team and stakeholders.

The main users and stakeholders of the study are:

- A) The main partners of the consortium
- B) Third parties
- C) Teachers, head teachers, museum educators and industry representatives
- D) Teenagers

Main Methods and Techniques to be used

The assessment team will perform formative and summative evaluations. All data should be sex-disaggregated. The strategy deployed by the subcontractor will involve, at least:

- In-situ interviews with target audiences and visits to at least one consortium partner to observe the implementation of the activities.
- Pre-post surveys with participants and stakeholders (online and/or offline) and a longer term follow up within the timeframe of the project in order to monitor lasting effects.
- Document analysis from institutions sources and other sources.

The proposal should describe the main methods and techniques used such as: The evaluation design (planning and structuring of evaluation); the data sources and procedures and the data analysis procedure; how the evaluation will be managed, describing the activities and schedule, the evaluation team members, and the administrative and logistical support.

Once the contract is signed, the subcontractor will have to deliver the following documents according to schedule:

Workplan (it should include a detailed work plan with the evaluative and research questions and performance indicators ready to discuss in the kick off consortium meeting in November 2015);

- Inception report (in which the design of the activities as well as the detailed schedule will be spelt out);
- Interim report ;
- Preliminary final report, and
- Final report

Budget, Payment and Legal Framework

Hypatia offers a financial contribution of 8.000€.

Applicants must to break down their budget into basic categories, including:

- personnel costs,
- travelling expenses,
- office supplies and consumables,
- and others.

Payments will be distributed as follows:

- 30% of the total amount will be paid, after the reception of the “Inception Report”.

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- 30% of the total amount will be paid, after the reception of the “Interim Report”.
- 40% of the total amount will be paid, after the reception of the “2018 Final Report”.

Successful applicants will be invited to join the Hypatia project as subcontractors, signing a contract with NEMO and following the rules laid out by the European Commission for subcontracts in Horizon 2020 projects. The legal, contractual and institutional framework for this call is regulated by the contracting laws of the Dutch law.

Required Qualifications of the evaluator team and Selection Criteria

This call is open both to academic organisations, companies or individuals.
The subcontractor must have previous experience in conducting evaluation activities.
The criteria to be considered for selecting the subcontractor will be:

- Expertise working with research and evaluation
- Acquainted with European projects
- Experienced in the evaluation of science and education projects
- High level of insight on the relationship between young people and science
- High level of insight on the relationship between girls and science

The criteria according to which the proposals will be judged, will be:

- The quality of the methodological approach and its ability to address the required evaluation objectives
- The qualifications and previous experience of the team
- The suitability of the distribution of the items in the budget to the requested work and the effort required

Structure of the proposal

The proposal must be delivered in English. The proposal will be presented in a sample structure including:

0. Cover page with the following sentence “Proposal for Evaluation of Horizon2020 project HYPATIA”

date of proposal, name of the organisation, name of responsible person for the proposal and signature (with full contact details).

1. Proposal:

- a. Methodology: Brief description of the methodology to be used and analytical framework.
- b. Work plan with detailed schedule.
- c. The distribution of budget for the evaluation

Description of the entity showing its ability to perform the work including professional background, disciplinary expertise and legal specifications.

Submission deadline and procedures

If you are interested, you should submit the tender before September 26, 2015

Tenders may be sent either:

a) by e-mail to vanlaar@e-nemo.nl

b) by registered postal mail, (date of postmark serving as evidence of timely delivery) to the following address:

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SCIENCE CENTER NEMO
POSTBUS 421
1000 AK AMSTERDAM
NETHERLANDS

c) or by courier services (date of deposit slip serving as evidence of timely delivery), to the same address above.

Special Obligations

Confidentiality

The evaluator or consultant will undertake to treat in the strictest confidence and not to make use of or divulge to third parties any information or documents which are linked to the performance of the contract. The evaluator or consultant will continue to be bound by this undertaking after completion of the tasks.

Copyright and Authorship

Any results and rights thereon, including copyright and other intellectual or industrial property rights, obtained in the performance of the contract, will be owned solely by NEMO, which may use, publish, assign or transfer them as they see fit, without geographical or other limitation, except where industrial or intellectual property rights exist prior to the contract being entered into.

NEMO will ensure that the name of the evaluator or consultant and his/her contribution as author or co-author will clearly be specified in all the documents where the Sub-consultant will participate.

Arbitration

The agreement will be governed by Dutch Law. The courts of the Netherlands will have exclusive jurisdiction to settle any dispute that may arise out of or in connection with this tender and derived agreements.

Ethics

The evaluator or consultant will need to ensure that ethical aspects of Horizon 2020 are taken into consideration.