

CALL FOR APPLICATIONS FOR THE PROVISION OF 8 RESEARCH GRANTS

Rector's Decree No. 542 of 20 December 2021

Art. 1

Object

1. The University of Macerata announces the public selection procedure to award no. 8 research grants based on the evaluation of research projects submitted by the candidates, their academic qualifications and interviews.
2. This call is issued under the resources assigned by the Ministry of University and Research through the "Fund for the promotion and development of the policies of the National Research Program", introduced by Law December 30, 2020, art. 1, paragraph 548, on the basis of the initiatives instituted by Ministerial Decree 737 of 25 June 2021.

The University program, approved by the MUR, foresees the recruitment of 8 research fellows with a two-year contract, renewable for a maximum of 18 months, to create a bridge between the scientific area in a broad sense and the design of projects for competitive national and international calls. It is intended to support the University in the planning of research through the organization of a team to guide and advise researchers from all over the University on the design and management of competitive research calls.

3. Candidates are required to have the specific skills of a "research manager", as provided for in the National Research Program. To wit, they must support the entire research life cycle, considering in particular the planning services to support research, lobbying and networking, and research promotion, they must also plan support activities and contribute to the monitoring and evaluation of projects, also with a view to developing and consolidating the career of researchers.

The selected candidates will work on an *interdisciplinary team* with complementary skills, in an integrated way to fuel the entire University research sector.

The skills to be activated with the 8 research fellow positions concern, in the first place, some priorities of the **European Research Area**: gender dimension in research; open science and research reproducibility; research integrity; ethics; transdisciplinary; IPR management and exploitation; outreach and citizen science; science education.

At the same time, with the 8 research fellow positions we intend to oversee some macro-trajectories in research of the European framework program **Horizon Europe**: health; culture, creativity and inclusive society; civil security for society; digital, industry and space; climate, energy and mobility; sustainability; research career development; European innovation ecosystem.

Further details about the skills mentioned are given in the Appendix to this call.

4. The research projects presented by the candidates may concern one of the following topics:
 - A. Health;
 - B. Culture, Creativity and Inclusive Society;
 - C. Civil Security for Society;

- D. Digital, Industry and Space;
- E. Climate, Energy and Mobility;
- F. Sustainability;
- G. Research career development;
- H. European innovation Ecosystem.

In drafting the projects, the candidates will have to refer to one or more priorities of the European Research Area.

5. Research grants are given as specified below:

A. Health	Research activity should focus on: improving and protecting the health and well-being of citizens of any age; creating new knowledge; developing innovative solutions, new ways to keep people healthy and prevent disease; developing better diagnostics and more effective therapies; using personalized medical approaches to improve health care and well-being; adopting innovative health technologies such as digital ones.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

B. Culture, Creativity and Inclusive Society	Research activity should focus on the actions to be taken to strengthen European democratic values, including the rule of law and fundamental rights, safeguard our cultural heritage, and promote socio-economic transformations that contribute to inclusion and growth.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

C. Civil Security for Society	Research activity should focus on the actions to be taken to respond to the challenges arising from persistent security threats, including crime and terrorism, cybercrime, as well as natural and man-made disasters.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19.367,00 gross per annum

D. Digital, Industry and Space	Research activity must focus on the actions to be taken to support European technological sovereignty in those technologies enabling production processes, digitization and space technologies along the value chain in order to promote the sustainability of European industry.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

E. Climate, Energy and Mobility	Research activity should focus on the actions to be taken to fight climate change, both by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more respectful of the climate and environment, more efficient and competitive, smarter, safer and more resilient.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

F. Sustainability	Research activity should focus on actions to be taken to reduce environmental degradation, arrest and reverse the decline of biodiversity on Earth, inland waters and the sea, and sustainably manage natural resources through transformative changes of the economy and society in urban and rural areas.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

G. Research career development	Research activity should focus on the actions to be taken to improve the career prospects and employability of researchers in the public and private sector (involving industry and research institutes) through an intensive and highly qualified supervision and mentoring program, as well as on network-level training activities aimed to develop task-oriented research skills, and general and transferable research skills.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

H. European innovation Ecosystem	Research activity should focus on actions to be taken to create firmly connected and efficient innovation ecosystems in order to support business growth, encourage innovation and enhance cooperation between national, regional and local innovation players.
Number of published grants	1 (one)
Term	24 (twenty-four) months – possibly renewable
Amount	€ 19,367.00 gross per annum

- The date, time and location of the interview will be announced on the University's institutional website at the link <https://www.unimc.it/it/ateneo/bandi-e-concorsi/finanziamenti-ricerca/bandi-assegna-ricerca> and be communicated to each of the candidates via e-mail.
- The Committee of research delegates will choose a supervisor from among the professors and researchers of the University for each of the selected research projects based on the specific research area developed by the candidate. The Committee will also identify the facility in which the research activity will take place. It will be the responsibility of the supervisors to arrange how the research will be conducted and the days when the Postdoctoral Research Fellows must be present at their departments.
- The University applies the principles contained in the European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers, available on the University website <https://www.unimc.it/it/ricerca/hrs4r/hrs4r-human-resources-strategy-for-researchers>.

Art. 2

General admission requirements

- Individuals in possession of a PhD degree or equivalent obtained abroad, lasting at least three years, in the humanities or social sciences, accompanied by a scientific-professional curriculum suitable for carrying out the research activity may participate in this selection process.
- For academic qualifications obtained abroad, equivalence with the corresponding Italian qualifications is verified by the selection board for the sole purpose of participating in the selection process.
- To participate in this call for applications, it is also necessary to possess the following requirements:
 - To enjoy civil and political rights;
 - To be in possession, with the exception of the ownership of Italian citizenship, of all the other requisites for citizens of the Republic;
 - For foreign citizens, to have an excellent knowledge of the Italian language (at least C1).
- The participation requirements must be possessed on the expiration date of the deadline for submitting the application for admission.
- Candidates are admitted to the selection procedure with reservation. The Administration may at any time, take measures to exclude candidates for the lack of the prescribed requirements. This provision will be communicated to the interested party via the e-mail address indicated in the application form.

Art. 3

Additional preferential requirements for participation

- The selection board will pay particular attention to:
 - Research experience in the chosen thematic area;

- b. Excellent knowledge of English (at least C1);
- c. Experience in scientific research abroad at qualified public or private institutions;
- d. Further extracurricular experience related to the research program;
- e. Scientific publications consistent with the research macro-theme.

Art. 4

Prohibition of cumulation and incompatibility

1. The overall duration of the Postdoctoral Research Fellowship, including the duration under this call, cannot exceed six years, apart from the period in which the grant was received in concomitance with Ph.D. research, within the maximum limit of the legal duration of the relative course.
2. The overall duration of the Postdoctoral Research Fellowship together with fixed-term research contracts, even with other universities or with other qualified entities that award research grants, cannot in any case exceed twelve years, not necessarily consecutive, including the duration of the contract under this call. For the purposes of the duration of the above-mentioned relationships, periods spent on maternity leave or for health reasons pursuant to current legislation do not count.
3. Permanent staff at the following institutions cannot participate in the selection process: universities; public institutions and bodies for research and experimentation; the National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA); and the Italian Space Agency (ASI). This also applies to permanent staff of institutions whose Diploma of Higher Training has been recognized as equivalent to the title of PhD in accordance with art. 74, paragraph four, of the Presidential Decree 11 July 1980 no. 382.
4. Individuals within four degrees of consanguinity with a professor belonging to the facility making the proposal to activate the contract, or with the Rector, the General Manager or a member of the Board of Directors of the University of Macerata cannot participate in the selection process.
5. Employees serving in public administrations can hold research grants as long as they are placed on unpaid leave for the entire duration of the contract.
6. The research grant is not compatible with enrolment in a bachelor's degrees, master's degrees or specialisation schools, MA, research doctorates with scholarships or medical specialization, in Italy or abroad.
7. The research grant cannot be combined with other grants or scholarships, with the exception of those granted by national or foreign institutions useful for integrating the research activity of the holder of the research grant with a study period abroad.

Art. 5

How to submit applications

1. The present call for applications will be published on the University website (<https://www.unimc.it/it/ateneo/bandi-e-concorsi/finanziamenti-ricerca/bandi-assegna-ricerca>), on the website of the Ministry of University and Research (<http://bandi.miur.it>) and on the European Commission website, Euraxess (<https://euraxess.ec.europa.eu/>), as well as on the PICA portal (<https://pica.cineca.it/>).
2. The application for participation in the selection process must be submitted electronically through the online form available at the following link <https://pica.cineca.it/>, by selecting University of Macerata – Bandi/Calls. The online submission procedure of the application form must be completed within forty-

five days starting from the day following the publication of the present call on the institutional website of the University.

3. The candidate may submit a single application form by selecting a single research topic from those indicated in art. 1 paragraph 4 (main topic).
4. The candidate can indicate any further topics for which he/she is interested in competing for. The choice of the main topic does not bind the selection board to the assignment of that same topic as a research area to be carried out during the period of the grant, as specified in art. 7 paragraph 6 below.
5. In the application form, the candidate must declare under his/her own responsibility and pursuant to articles 46, 47 and 76 of the Decree of the President of the Republic of 28 December 2000, No. 445:
 - a. Personal details, date and place of birth, citizenship, tax code, residence and address elected for the call, specifying the zip code, telephone number and e-mail address elected for the call;
 - b. For Italian citizens, the municipality on whose electoral lists she/he is registered or the reasons for the non-registration or cancellation from such lists;
 - c. That they have not been convicted or found guilty of any criminal offence and that they have no ongoing criminal proceedings;
 - d. The PhD degree held, the title of the thesis, the name of the advisor as well as the date of graduation and the University where the doctoral course is held, or the equivalent academic qualification obtained from a foreign university;
 - e. In the event that the foreign academic qualification has not been declared equivalent, request for a Statement of Equivalence, accompanied by the documents (copy of the academic qualification accompanied by a copy of the legalized translation, as well as a certificate indicating the tests taken and relative assessment, also accompanied by copy of the legalized translation) needed to permit the selection board to declare equivalence for the sole purpose of participating in the selection procedure;
 - f. Any research grants or other contracts which he/she was previously awarded;
 - g. Not to be the holder of other scholarships awarded for any reason, or to renounce them if this selection process is passed;
 - h. Not to be a member of the permanent staff of the administrations referred to in art. 4 paragraph 3;
 - i. Any employment with public institutions different than those mentioned above;
 - j. Not to exceed the maximum time limit of twelve years, not necessarily consecutive, considering the overall duration of the contracts referred to in art. 22 (Research grants) and art. 24 (Fixed-term research) of Law No. 240 of 30 December 2010, as well as other contracts with other institutions referred to in art. 4 paragraph 3, together with the duration of the contract indicated in the present call;
 - k. Not to be within four degrees of consanguinity with a professor belonging to the Department making the proposal to activate the contract, or with the Rector, the General Manager or a member of the Board of Directors of the University of Macerata;
 - l. To undertake to promptly communicate, by electronic certified e-mail or registered letter with acknowledgment of receipt, any changes in their position, as well as in residence and/or address that may occur after the application;
 - m. To have read the regulations provided for in this call for applications;
 - n. Foreign citizens must also declare their citizenship, to enjoy civil and political rights even in their country of origin, or the reasons for their deprivation of the same, and that they are adequately fluent in Italian;

- o. To have read and abide by the current legislation on research grants, referred to in this call.
6. Candidates with disabilities, under law no. 104, will have to make an explicit request for any help needed to be able to take the tests.
7. Candidates must indicate the main topic for which they intend to compete, identifying any additional topics of interest, and attach the following documentation:
 - a. **A research project, written exclusively in English**, consistent with the main topic chosen, where one or more priorities of the European Research Area are referred to;
 - b. Their scientific-professional curriculum, signed and dated;
 - c. The list of all academic qualifications and publications considered useful for the purposes of the evaluation. In the case of publications with multiple authors, it is required to specifically declare the individual contribution made. In the case of research periods carried out at national and international institutions, it is required to specifically declare the type of activity carried out and the duration;
 - d. The publications referred to in paragraph b) above in PDF format;
 - e. Copy of a valid identity document;
 - f. Copy of the tax code;
 - g. Copy of the receipt of payment for the € 15.00 contribution to the costs of the call, to be made through the PagoPA payment system using the payment portal at the following link: <https://unimc.pagoatenei.cineca.it/#/> (choose “spontaneous payment” and indicate as “payment reason” the option “research grants fee – participation in the call for applications” and write in the purpose of the payment “Type A Research Grant”).
8. The academic qualifications for which the candidates request to be evaluated must be possessed within the deadline established for the submission of the applications.
9. The status, facts and personal qualities self-certified by the winner of this selection process may be subject, by the University, to appropriate checks on the veracity of the same.
10. It is not allowed to refer to documents and publications that were already submitted for the participation in other contests organized by the University of Macerata.
11. Applications not signed with handwritten and/or digital signature, those without personal data, documentation and declarations indicated in the present article, as well as applications submitted in ways other than those indicated in paragraph 2 of this article will not be taken into consideration. Candidates whose applications have been excluded will be notified at the e-mail address indicated in the application.
12. The Administration is not responsible for any failure to receive communications due to inexact indications by the candidate of the address indicated in the application, or failure or delay in communicating changes of the same, nor for any technical problems or in any case attributable to third parties, chance or force majeure.

Art. 6

Selection board

1. The selection board is appointed by the chancellor of the University and is made up of five university professors and researchers who are experts in the topics covered by the call, three of whom are drawn from a list of names indicated by the departments and two external ones drawn from the three members of the supervisory body of the Pnrr.
2. The selection board will have to assess, on the basis of the research project and the academic qualifications presented and the outcome of the interview, that the candidate possesses the necessary knowledge to carry out the research activity covered by the call.

3. For the evaluation of the research projects presented by the candidates, the commission may make use of highly qualified experienced reviewers, external to the University, identified within the ministerial and European Union lists, appointed by Rectoral Decree.
4. Before viewing the applications, the selection board will define the general criteria for the evaluation of academic qualifications, projects and the interview and establishes the score to be awarded for each type of academic qualification and for the project, in compliance with the evaluation grid outlined in article 7 below.
5. The evaluation of academic qualifications and projects is carried out before the interview.

Art. 7

Selection and formation of the list

1. To rank the candidates, the selection committee has a total of 100 points distributed as follows:
 - For academic qualifications and publications, from 40 to 60 points;
 - For the project, from 25 to 35 points;
 - For the interview, from 15 to 25 points.
2. Candidates who have obtained a score equal to or greater than 70/100 are considered suitable. Where merit is equal, the youngest candidate is preferred.
3. Candidates invited for an interview must be in possession of a valid identification document.
4. Failure to attend the interview will be considered withdrawal from the call.
5. Candidates resident or domiciled abroad, or resident in municipalities that are located more than 300 km from Macerata, can request that the interview be conducted remotely by sending a request to the e-mail address ufficio.ricerca@unimc.it.
6. The selection committee will formulate the proposal for the awarding of the research topics, pursuant to art. 1 paragraph 4, to the winning candidates, also evaluating the relevance of the academic qualifications presented, the training profile, skills, experiences and attitudes with respect to the skills required for the development of the individual topics covered by the call. The selection committee may also disregard the main option expressed by the candidate and assign the winner a scholarship relating to one of the other research topics in accordance with art. 5, paragraph 7.
7. The selection committee will prepare special reports containing the evaluation criteria, the individual evaluations of the candidates, the overall score attributed to each candidate and the merit list.
8. The merit list is approved by Rectoral Decree, it takes effect immediately and is published on the University website.
9. Successful candidates will be notified in writing of the award of the grant via the e-mail address indicated in the application.

Art. 8

Contract

1. The research grant is awarded with a private law contract in accordance with art. 2222 and following of the civil code.
2. The contract does not in any way constitute an employment relationship and does not give rise to rights regarding access to University positions.
3. The postponement of the conclusion of the contract in relation to the date established by the University, as well as postponements in the beginning of the activity, may be requested by the interested party

exclusively for serious health reasons or for duly certified cases of force majeure, as well as for the application of the provisions referring to the protection of maternity and paternity.

4. In the event of express renunciation or failure to sign the contract by the winner of the selection within the deadline indicated by the University, the grant is awarded to the candidate who is in next on the ranking list.
5. Winners who have earned their academic qualification abroad, must send the competent authority by registered letter with return receipt, the original of the official translation with the declaration of value of the foreign academic qualification on site by the competent Italian diplomatic or consular representations in the country that issued the academic qualification, according to the regulations in force, within 60 days from the decree of approval of the selection documents, under penalty of forfeiture of the right to stipulate the contract.

Art. 9

Economic treatment

1. The grant shall be paid in monthly instalments.
2. The provisions of article 4 of law no. 476 shall apply to research grants in fiscal matters, as well as, in social security matters, those referred to in article 2, paragraphs 26 and following, of law no. 335, and subsequent amendments. The holder of the grant has the burden of registering with the INPS separate management.
3. In the matter of compulsory maternity leave, the provisions of the decree of the Minister of Labour and Social Security of 12 July 2007, published in the Official Gazette no. 247 of 23 October 2007 and, in the matter of sick leave, article 1, paragraph 788, of the law of 27 December 2006, no. 296 and subsequent amendments shall apply.
4. The University provides insurance coverage for the holder of the grant against the risk of accidents and civil liability towards third parties as part of the research activity.
5. The research grant is suspended in periods of absence due to maternity or paternity for the entire period of compulsory leave required by law, with the extension of the employment relationship, upon the termination of the contract, in accordance with the provisions of current legislation. During the period of compulsory leave, the allowances paid by INPS, in accordance with article 5 of the above-mentioned decree of 12 July 2007, is supplemented by the University up to the amount of the research grant.
6. Without prejudice to the provisions of current health policy, the withdrawal of the grant for periods of absence due to illness or for optional abstention for maternity or paternity of less than thirty days in a year, does not lead to any extension of the employment relationship.
7. On the proposal of the supervisor, in the event of absences of more than thirty days in a year, the employment relationship may be extended where it is necessary for the completion of the research activity.

Art. 10

Rights and obligations of grant holders

1. The holder of the research grant carries out his/her activities on a team with the other fellows, in coordination with the research structures of the University, in line with the *governance* of the activities under the investment plan of the University in implementation of Ministerial Decree 737/2021, as well as under the supervision of the supervisor, in conditions of autonomy and on a permanent basis.

2. The holder of the research grant has the right to use, for the purpose of carrying out the research activity, the equipment of the facility where he/she carries out the activity.
3. The holder of the research grant, subject to the favourable opinion of the supervisor, may also carry out the research activity in facilities outside the University, as well as in a research institution abroad, in line with the program and objectives of the research. The period of stay abroad must be previously authorized by the relevant institution, following a motivated proposal from the supervisor and in line with the activities of the team of fellows.
4. The holder of the research grant can participate in research groups, as well as in research activities carried out in the context of national, EU and international programs; he/she may also participate in the execution of research and consultancy on behalf of third parties commissioned to the University and in the distribution of the relative proceeds according to the procedures established by the current regulatory standards, as long as this activity does not conflict with the service performed as Postdoctoral Research Fellow.
5. Without prejudice to the obligation to fully carry out their institutional duties, the holder of the grant, subject to a favourable opinion from the supervisor and subsequent authorization of the relevant facility, may carry out self-employment activities, including the performance of professional activities, which means trade and industry, as long as the activities in question are carried out in times and in a manner compatible with the smooth running of the research activity, do not involve a conflict of interest with the specific research activity carried out, and do not cause any prejudice to the image or the interests of the University.
6. The holder of the grant may be entrusted, subject to a favourable opinion from the research supervisor and authorization of the relevant structure, with a limited teaching activity under the conditions laid down in the current regulatory standards, provided that they do not jeopardize the profitable outcome of the research activities.
7. The holder of the grant can carry out the activities of speaker in seminars, conventions and conferences and publicity activities; he/she may also attend additional Ph.D. courses without a scholarship as long as he/she passes the admissions tests and, if applicable, pays tuition for the the courses.
8. The holder of the grant is required to submit a written report on the activity carried out and the results achieved to the relevant structure annually and, in any case, upon termination of the contract, accompanied by the evaluation of the supervisor.

Art. 11

Withdrawal and termination of the contractual relationship

1. The holder of the research grant may withdraw from the stipulated contract, with written notice of at least thirty days communicated to the relevant structure and to the supervisor.
2. In the event of lack of proper notice or notice communicated without observing the minimum term referred to in the previous paragraph, the University has the right to withhold or recover an amount corresponding to the salary for the period of non-notice.
3. The University may order the forfeiture of the grant and the consequent termination of the contract in the following cases:
 - a. Unjustified non-commencement or delay of the research activity;
 - b. Unjustified interruption of the research activity;
 - c. Violation of the provisions relating to incompatibilities and prohibition of overlapping;

- d. Negative opinion on the research activity expressed by the structure to which they belong during the period of the collaboration;
 - e. Other serious non-compliance.
- 4. Only delays or interruptions due to serious health reasons or duly substantiated cases of force majeure can be justified.
 - 5. In the case of violation of the incompatibility regime, the holder of the grant is required to return the payments already received for the period in which the incompatibility arose.

Art. 12

Treatment of personal data

- 1. The personal data sent by the candidates with the applications for participation in the selection process, in accordance with the Legislative Decree of 30.06.2003 No. 196 and of the EU GDPR 2016/679, will be processed exclusively for purposes of managing this procedure.

Art. 13

Individual in charge of the call

- 1. In accordance with article 5 of Law 7 August 1990, no. 241 and subsequent amendments and addenda, the person in charge of the administrative procedure is Dr. Cinzia Raffaelli, Research Area - Office for Scientific Research and Doctoral Studies, T 0733.258.2843 – e-mail ufficio.ricerca@unimc.it.

Art. 14

Regulatory reference

- 1. With regards to anything not expressly regulated in the present call, the provisions of the current legislation on the subject apply.

Macerata.

The Rector

Prof. Francesco Adornato

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APPENDIX

Transversal and thematic specialization profiles

European Research Area priorities

1. Gender dimension in research^{1 2}

Integrating the gender dimension in the research and innovation content by analysing and taking into account possible differences between men and women, boys and girls, or males and females.

2. Open science and research reproducibility (fair data management, pre-registration reports which are part of open science)^{3 4}

Fostering an approach to the scientific process based on open cooperative work and tools; diffusing knowledge ensuring reproducibility of results as a continuum based on reproduction, replication, re-use.

3. Research integrity^{5 6}

Maintaining and promoting a culture of research integrity into the design and execution of research project, following the principles of the European Code of Conduct for Research Integrity, including honesty, reliability, respect, and accountability.

4. Ethics⁷

Application of fundamental ethical principles and legislation to scientific research from the beginning to end in all possible domains of research.

5. Transdisciplinarity (Challenge oriented research)^{8 9}

The crossing of knowledge to not only include academia but also other stakeholders in the process of collaboration by creating boundary crossing theories and models in a holistic approach.

6. IPR management and exploitation^{10 11}

Fostering an efficient IPR management moving from a focus on IPR protection into active use and valorisation of IP assets. Maximise the potential of research outcomes, while striking a balance between protecting IPR (where appropriate) and open innovation practices.

¹ Gender Equality in Horizon 2020, https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/gender_en.htm

² Gender equality in research and innovation, https://ec.europa.eu/info/research-and-innovation/strategy/strategy-2020-2024/democracy-and-rights/gender-equality-research-and-innovation_en#gender-equality-plans-as-an-eligibility-criterion-in-horizon-europe

³ European Commission (2020). Reproducibility of scientific results in the EU. Scoping Report, December 2020

⁴ Horizon Europe Regulation and Model Grant Agreement, July 2021, https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/aga_en.pdf

⁵ European Commission, Towards a 2030 vision on the Future of Universities in Europe, Policy report, p. 64

⁶ ALLEA, (2017). Revised version, The European Code of Conduct, https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/european-code-of-conduct-for-research-integrity_horizon_en.pdf

⁷ https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/ethics_en.htm

⁸ European Commission (2020). Work Programme, 2018-2020, Science for Society, https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-swfs_en.pdf

⁹ Responsible research & Innovation, <https://ec.europa.eu/programmes/horizon2020/en/h2020-section/responsible-research-innovation>

¹⁰ European Commission, 2020, A New ERA for Research and Innovation

¹¹ European Commission, 2020, Towards a 2030 Vision on the Future of Universities in Europe, p.107;109.

7. *Outreach and citizen science*^{12 13 14}

Explaining the contribution that research and innovation has in tackling societal challenges and involving citizens as non-professional scientists at different stages of the process, from shaping research agendas and policies, to gathering, processing and analyzing data, and assessing the outcomes of research.

8. *Science Education*¹⁵

Making science more attractive to young people, increasing society's appetite for innovation, and opening up further research and innovation activities to improve science and technology-literacy in our society.

Clusters Horizon Europe

1. *Health*¹⁶

Improving and protecting the health and well-being of citizens of all ages by generating new knowledge, developing innovative solutions, new ways to keep people healthy, prevent diseases, develop better diagnostics and more effective therapies, use personalised medicine approaches to improve healthcare and wellbeing, and take up innovative health technologies, such as digital ones.

2. *Culture, Creativity and Inclusive Society*¹⁷

Strengthen European democratic values, including rule of law and fundamental rights, safeguarding our cultural heritage, and promoting socio-economic transformations that contribute to inclusion and growth.

3. *Civil Security for Society*

Respond to the challenges arising from persistent security threats, including cybercrime, as well as natural and man-made disasters.

4. *Digital, Industry and Space*

Shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe.

5. *Climate, Energy and Mobility*

Fight climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

¹² European Commission, Horizon Europe (HORIZON), Programme Guide, Version 1.2, October 2021, p.39; 42; 52.

¹³ <https://ec.europa.eu/programmes/horizon2020/en/news/new-factsheet-citizen-science>

¹⁴ European Commission, Elevating research and innovation through societal engagement. <https://op.europa.eu/en/publication-detail/-/publication/d1768147-f17a-11ea-991b-01aa75ed71a1/language-en/format-PDF/source-152465380>

¹⁵ <https://ec.europa.eu/programmes/horizon2020/en/h2020-section/science-education>

¹⁶ https://ec.europa.eu/info/research-and-innovation/research-area/health-research-and-innovation_en

¹⁷ https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/cluster-2-culture-creativity-and-inclusive-society_en

6. Sustainability (including Food, Bioeconomy, Natural Resources, Agriculture and Environment)

Reducing environmental degradation, halting and reversing the decline of biodiversity on land, inland waters and sea and better managing natural resources through transformative changes of the economy and society in both urban and rural areas.

7. Research career development¹⁸

Enhance the career perspectives and employability of research fellows to public and private sectors (involving industry and research institutes) through an intensive and highly qualified supervision and mentoring program, as well as the network-wide training activities aimed at developing task-oriented research skills, generic research skills and transferable skills.

8. European innovation Ecosystem¹⁹

Create more connected and efficient innovation ecosystems to support the scaling of companies, encourage innovation and stimulate cooperation among national, regional and local innovation actors.

¹⁸MARIE-SKLODOWSKA-CURIE-ACTIONS, <https://ec.europa.eu/programmes/horizon2020/en/h2020-section/marie-sklodowska-curie-actions>

¹⁹ https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-innovation-ecosystems_en