



## RULES AND REGULATIONS

L'ORÉAL-UNESCO *FOR WOMEN IN SCIENCE* INTERNATIONAL AWARDS  
2022 EDITION

### LIFE AND ENVIRONMENTAL SCIENCES

#### 1. Introduction

Created in 1998, the L'Oréal-UNESCO *For Women in Science* International Awards recognize and support eminent women in science throughout the world. Each year, five Laureates are recognized for their contributions to the advancement of science, in Life and Environmental Sciences or Physical Sciences, Mathematics and Computer Science in alternating years.

The 2022 edition of the Awards will designate five outstanding scientific researchers in the field of Life and Environmental Sciences, working in the following regions:

- Africa & the Arab States
- Asia and the Pacific
- Europe
- Latin America and the Caribbean
- North America

One candidate will be selected for each of the five regions, the determining factor being the place of work for at least 5 years, not the nationality of the candidate.

Each of the five Laureates will receive an Award of €100,000.

#### 2. Eligibility Criteria

The candidate must:

- Be recognized for her scientific excellence by the international scientific community,
- Be actively involved in scientific research,
- Work in any field of the Life and Environmental Sciences mentioned in appendix 1.

For your information, there is no age constraint regarding the candidate.

### 3. Selection Criteria

The selection criteria of the candidates are the following:

- The candidate's outstanding contribution to the general advancement of science,
- The impact of the candidate's research on the current state of the relevant scientific field (number, quality and impact of publications, conference presentations, patents),
- The recognition of the candidate by peers within her discipline through publications,
- The recognition of the candidate's commitments to education, teaching activities, mentoring and/or to the United Nations Sustainable Development Goals more broadly.

The L'Oréal-UNESCO *For Women in Science* Awards are non-renewable.

### 4. Nominations

Scientists around the world are invited to nominate candidates for the L'Oréal-UNESCO *For Women in Science* International Awards.

To be considered eligible for an Award, it is necessary to be nominated in writing by an eminent scientist. Self-nominations are not eligible, nor nominations from immediate family members. Teams are not eligible for nomination.

Qualified nominators may be:

- Heads of University or Scientific Institutions,
- Members of Academies of Science,
- Holders of Research Chairs,
- Full professors
- Past *For Women in Science* Award Laureates,
- or at a minimum holders of a PhD in Science.

Nominations can only be submitted electronically through the online-dedicated platform [www.forwomeninscience.com](http://www.forwomeninscience.com), and must be written in English.

Having a new application platform, previous nominators will be asked to reset their password the first time they will log in for data security reasons (in accordance with the General Data Protection Regulation). If new to the system, the nominator will need to create a user ID and password.

An application is considered complete only if it includes all the following documents:

- A brief explanation of why the nominator considers the candidate eligible for the L'Oréal-UNESCO *For Women in Science* International Awards (200-400 words).
- A suggested quotation for the general public if the candidate is selected. This should be a concise statement (maximum of 40 words) describing the key technical or professional accomplishment for which the candidate deserves the Award. Note that the Jury will approve the final official Laureates' statements.
- A detailed Curriculum Vitae (maximum 2 to 3 pages). The nominator must include in the CV (or in the publications list) any reference to the candidate's scientific social networks and/or websites (such as ResearchGate, ORCID, personal website).
- A list of all the publications of the nominee.
- A list of the most significant patents starting with the most recent one.

- A list of the 10 most significant publications in order of importance with: a brief summary explaining their significance and why they are so relevant according to the Nominator (less than 150 words by publication); the number of citations for each paper excluding auto-citations, and the impact factor of each journal, if relevant. Please, add a link to access all publications mentioned in the list. If for some of the publications the related links are not available, please upload them in pdf, if possible, or at least provide fully detailed article references including all the authors.

- Three to five letters of recommendation from eminent scientists outside the candidate's home institution.

Nominations that are incomplete or received after Monday, 31 May 2021, as well as applications that do not meet the requirements mentioned above, will not be taken into consideration.

Nominations are valid for two Life and Environmental Sciences Awards cycles. Unsuccessful nominations submitted for the 2022 edition will be held on file and nominators will be invited to update their candidates' information when the next call for nominations for the International Awards in Life and Environmental sciences goes out (April 2023 for the 2024 edition).

## **5. Laureates' Selection**

- **Peer review pre-selection**

Through a peer-review process, an experts' panel from a variety of disciplines in Life and Environmental sciences will examine all submitted nominations.

After the experts' evaluation, a shortlist of around 10 candidates per each of the 5 regions (no more than 50 candidates in total) will be sent for assessment to the *For Women in Science* International Jury in Life and Environmental sciences.

- **Jury's selection**

The *For Women in Science* International Jury in Life and Environmental sciences is chaired by Professor Brigitte Kieffer, Professor Dpt Psychiatry at McGill University Montreal Canada, INSERM Research Director in Strasbourg France and Member of the French Academy of Science, 2014 L'Oréal-UNESCO Laureate for Europe, and composed of distinguished members of the international scientific community.

The Jury will evaluate the nominees pre-selected by the peer reviewers, in accordance with the selection criteria mentioned in Paragraph 3.

For the Jury's deliberation, which will be held in September 2021, the Jury will review and discuss the best nominations for each region. The Jury will select the five Laureates by a majority vote. Its decision is final and without appeal. It cannot be contested or subject to explanation or justification.

The results will be communicated by phone to the Laureates a few days after the deliberation. They must remain confidential until the official announcement.

## **6. Laureates' commitments**

Each Laureate will receive a €100,000 Award, which is presented personally to the Laureate, in recognition of her commitment and contribution to the advancement of scientific research.

The Fondation L'Oréal will make the payment of the Award directly to the Laureates a few month after the deliberation and after having received the necessary original documents for the wire transfer of funds.

The Awards are not transferable for any other purpose whatsoever.

The Laureates notably commit to:

- Participate in the Awards ceremony and all the related events (interviews, training, presentations, dinners, visits) that will be organized around the "*For Women in Science Week*". The Fondation L'Oréal will cover travel and accommodation expenses during the Laureates' trip.
- Keep the announcement confidential until the official announcement and not contact the media before that time.

The Laureates agree to be photographed, filmed and interviewed for non-commercial objectives and *For Women in Science* Program-related purposes. These photos, videos and texts will be used in publications and audiovisual means including but not limited to written press, television, internet, outdoor display, corporate publications, exhibitions, in France and worldwide. The image of the Laureates can be used for promotion of science among the younger generation, particularly young women. Each of the Laureates will sign a separate written audiovisual authorization. The Laureates will not receive any remuneration for such promotional activity.

#### **7. Provisional Timetable**

Call for Nominations opening date: **5 April 2021**

Nominations closing date: **31 May 2021**

Pre-selection by peer review: **early June to early July 2021**

Evaluation by the Jury: **mid-July to early-September 2021**

Jury's deliberation meeting: **mid-September 2021**

*For Women in Science* week: **March 2022 (to be confirmed)**

*For Women in Science* Awards Ceremony: **March 2022 (to be confirmed)**

APPENDIX 1 - LIFE AND ENVIRONMENTAL SCIENCES<sup>1</sup>

BIOLOGICAL SCIENCES	BASIC MEDICINE	CLINICAL MEDICINE	HEALTH SCIENCES	HEALTH BIOTECHNOLOGY	EARTH & RELATED ENVIRONMENTAL SCIENCES	AGRICULTURE SCIENCES
<ul style="list-style-type: none"> <li>- Biochemistry</li> <li>- Bioprocessing</li> <li>- Cell biology</li> <li>- Reproductive biology</li> <li>- Evolutionary biology</li> <li>- Anthropology, Archaeology</li> <li>- Human biology</li> <li>- Marine biology, freshwater biology, limnology</li> <li>- Molecular biology</li> <li>- Theoretical and non formalist biology</li> <li>- Biophysics</li> <li>- Biotechnology</li> <li>- Stem cells</li> <li>- Ultramicrobiology</li> <li>- Cell biology</li> <li>- Ecology</li> <li>- Entomology and Developmental biology</li> <li>- Ergonomics</li> <li>- Epigenetics</li> <li>- Evolution</li> <li>- Genetics and heredity</li> <li>- Immunology</li> <li>- Mechanisms</li> <li>- Biotechnical research methods</li> <li>- Microbiology</li> <li>- Mycology</li> <li>- Neuroscience</li> <li>- Parasitology</li> <li>- Cell physiology</li> <li>- Biodiversity conservation</li> <li>- Radiobiology</li> <li>- Plant sciences, forestry</li> <li>- Synthesis</li> <li>- Zoology: Ornithology, Entomology, Behavioral sciences, biology</li> </ul>	<ul style="list-style-type: none"> <li>- Anatomy and morphology</li> <li>- Medicinal chemistry</li> <li>- Human genetics</li> <li>- Immunology</li> <li>- Neurosciences (including psychophysiology)</li> <li>- Pathology</li> <li>- Pharmacology and pharmacy</li> <li>- Physiology (including cytology)</li> <li>- Toxicology</li> </ul>	<ul style="list-style-type: none"> <li>- Allergy</li> <li>- Anesthesiology</li> <li>- Anesthesiology</li> <li>- Respiratory systems</li> <li>- Surgery</li> <li>- Dentistry, oral surgery and medicine</li> <li>- Dermatology and venereal diseases</li> <li>- Endocrinology and metabolism (including diabetes, hormones)</li> <li>- Gastroenterology and hepatology</li> <li>- Geriatrics and gerontology</li> <li>- Hematology</li> <li>- Peripheral vascular disease</li> <li>- Critical care medicine and Emergency medicine</li> <li>- General and internal medicine</li> <li>- Obstetrics and gynecology</li> <li>- Oncology</li> <li>- Ophthalmology</li> <li>- Orthopedics</li> <li>- Otorhinolaryngology</li> <li>- Pediatrics</li> <li>- Psychiatry</li> <li>- Radiology, nuclear medicine and medical imaging</li> <li>- Rheumatology</li> <li>- Cardiac and Cardiovascular systems</li> <li>- Transplantation</li> <li>- Urology and nephrology</li> </ul>	<ul style="list-style-type: none"> <li>- Epidemiology</li> <li>- Infectious diseases</li> <li>- Occupational health</li> <li>- Tropical medicine</li> <li>- Nutrition, Dietetics</li> <li>- Parasitology</li> <li>- Public and environmental health</li> <li>- Sport and fitness sciences</li> <li>- Substance abuse</li> </ul>	<ul style="list-style-type: none"> <li>- Biomaterials (as related to medical implants, devices, sensors)</li> <li>- Health-related biotechnology</li> <li>- Forensic science</li> <li>- Technologies involving identifying the functioning of DNA, proteins (gene-based diagnostics and therapeutic interventions, pharmacogenomics, gene editing and recombinants)</li> <li>- Technologies involving the manipulation of cells, tissues, organs or the whole organism (assisted reproduction)</li> </ul>	<ul style="list-style-type: none"> <li>- Contamination &amp; waste management</li> <li>- Ecology</li> <li>- Geochemistry and geophysics</li> <li>- Physical geography</li> <li>- Geology</li> <li>- Geosciences, multidisciplinary</li> <li>- Meteorology and atmospheric sciences</li> <li>- Microzoology</li> <li>- Oceanography, Hydrology</li> <li>- Water resources</li> <li>- Palaeontology</li> <li>- Climatic research</li> <li>- Soil science</li> <li>- Environmental sciences</li> <li>- Volcanology</li> </ul>	<ul style="list-style-type: none"> <li>- Agriculture</li> <li>- Agronomy, plant breeding and plant protection</li> <li>- Agricultural biotechnology and food biotechnology</li> <li>- Agricultural chemistry</li> <li>- Livestock cloning, marker assisted selection, diagnostics (DNA chips and biosensing devices for the early/accurate detection of diseases)</li> <li>- Animal husbandry</li> <li>- Agricultural engineering</li> <li>- Horticulture, viticulture</li> <li>- Fishery</li> <li>- Phytopathology</li> <li>- Animal and dairy science</li> <li>- Soil science</li> <li>- Veterinary science</li> <li>- Forestry</li> <li>- GM technology crops and livestock</li> <li>- Biomass, feedstock production technologies, biopharming</li> </ul>

<sup>1</sup> This classification of disciplines is based on the Revised field of Science and Technology (fos) Classification in OECD Frascati Manual and adapted to the L'Oréal-UNESCO For Women in Science Programme