

**WMO OMM**

World Meteorological Organization  
Organisation météorologique mondiale  
Organización Meteorológica Mundial  
Всемирная метеорологическая организация  
المنظمة العالمية للأرصاد الجوية  
世界气象组织

**Secrétariat**

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Ref.: 30157/2021-14 MS/ETR

Our ref.: 30157/2021/MS/ETFD

11 January 2022

Annexes: 3 (available in English only)

Subject: WMO Education and Training Opportunities (2022)

Action required: For information and appropriate action, as required

Dear Sir/Madam,

I am pleased to advise you of the education and training opportunities which WMO plans to support during the year 2022, in cooperation with its education, training and fellowship partners and WMO Regional Training Centres. While some of the available opportunities are listed in the "Compendium of WMO fellowships and training opportunities (2022)" which can be downloaded from the [WMO community website](#), information about other opportunities that could come up during the year will be circulated to you in due course. Please note that, in line with the realignment of approaches to the delivery of education and training activities and considering the restrictions imposed by the COVID-19 pandemic, support for group national training will also be considered.

Prior to your submission of nomination(s), it is necessary to review the guide on nominations for fellowships and training, attached in [Annex I](#) as well as the Criteria on Award of Fellowship and Training Sponsorships on the [WMO community platform](#). Furthermore, for guidance on the choice of institutions for your candidate(s), you are advised to consult the partners listed in the Compendium and on the [WMO Regional Training Centres \(RTCs\) website](#).

Please be selective in the number of candidates you propose for consideration and ensure that your request aligns with the national priority in general, and the evolving needs of the National Meteorological and Hydrological Services (NMHSs) in particular, with due attention to gender balance. Unless otherwise stated in the Compendium, any candidate applying for a fellowship to undergo studies in any institution is required to secure an admission letter from that institution, or be in the process of obtaining one, prior to submitting their nomination to WMO. I also welcome ad hoc requests for support in the course of the year.

You are kindly requested to avail of WMO fellowships and training opportunities that are available in your national institutions. Such information can be requested from the Director, Education and Training Office.

To: Permanent Representatives of Members of WMO

cc: Hydrological Advisers

The deadline for submission of a general nomination to WMO is **31 March 2022**. Exemption dates are however indicated in the information table contained in [Annex II](#) and [Annex III](#).

I take this opportunity to express my appreciation for your continued cooperation in the delivery of education and training activities of WMO.

Yours faithfully,

A handwritten signature in blue ink, consisting of a long, sweeping horizontal line that curves downwards at the end, followed by a smaller, more intricate flourish below it.

Prof. Petteri Taalas  
Secretary-General

## Guide on nominations for fellowships and training

### 2022 Compendium of WMO Fellowships and Training Opportunities Requirements and Guide for Application

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WMO Community Website (<https://community.wmo.int/fellowships-applications>)

1. Read through the WMO EC Criteria on Award of Fellowships and Training Sponsorships on the ETR website.
2. Check for available fellowship and training opportunities in the Compendium and RTCs website.
3. For fellowship nominations, a completed Fellowships Nomination Form (FNF) is required (FNF can be downloaded from the ETR website).
4. The FNF must be signed by the Permanent Representative or a formally delegated alternative signatory and sent to the Secretary-General of WMO by the closing dates stipulated for that opportunity.
5. Any nomination must provide an admission letter from the institution for the requested course. The admission letter or accompanying documentation should provide the start and end dates of the course and the costs involved. To obtain the admission letter, candidates must apply to the institution who checks the academic, language and other requirements for that institution.
6. The applicant must be proficient in the language of study and/or provide the documentation regarding their language proficiency as required by the institution. Please note some institutions require an English language test, such as IELTS or TOEFL which may take time to obtain.
7. If multiple candidates are nominated, the Permanent Representative must also provide a priority listing for the candidates.
8. The nominating Member should pay attention to the eligibility quality of the candidates to avoid future withdrawal, drop out, failure and extension of study.
9. Any fellowship award requires all due and overdue post fellowship reports from previous fellows (completion report and 24 month post fellowship report, PR familiarization reports) to be provided to WMO.
10. Deadlines for nominations must be followed. Late nominations beyond the deadlines are normally not considered. The issuance of the admission letter from institutions and obtaining the result of a required language test takes time. If such a request is foreseen, candidates are suggested to take action as early as possible.
11. For courses offered by WMO RTCs of less than one month, candidates must use the nomination forms provided by the RTC. A signed request by the PR of the WMO Member is required for WMO support. Participants who have been selected for WMO support will be asked to complete a Request for Financial Assistance (RFA) form.

## WMO Fellowship Partners

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1.1	China	China Scholarship Council
1.2	China	Nanjing University of Information Science and Technology (NUIST)
1.3	China	Hohai University
2	France	Ecole Nationale de la Météorologie (ENM)
3	Germany	Leibniz Universität Hannover (LUH)
4	Republic of Korea	Ewha Womans University (EWU)
5	The Netherlands	IHE Delft, Institute for Water Education
6	Russian Federation	Russian State Hydrometeorological University (RSHU)
7.1	United Kingdom	University of Reading
7.2	United Kingdom	European Centre for Medium Range Weather Forecast (ECMWF)
8	United States of America	National Oceanic and Atmospheric Administration (NOAA)
9	Italy	The World Academy of Sciences (TWAS)
10	Argentina	Universidad Nacional del Litoral (UNL)

### 1.1 China Scholarship Council, China

1	Host Country	China
2	Host institution(s)	1. Nanjing University of Information Science and Technology (NUIST) 2. Hohai University (Hohai)
3	Website	<a href="http://www.campuschina.org">http://www.campuschina.org</a>
4	Location of Institution(s)	Nanjing, China
5	Address of Institution	Refer to NUIST(1.2) and Hohai(1.3) below
7	Course type	BSc, MSc and PhD programme in meteorology and hydrology
8	Faculty/Departments/Majors	Meteorology (NUIST), Hydrology and Water Resources Monitoring and Management (Hohai)
9	Duration of study	BSc: 5 years (including one year Chinese language study) MSc: 2 to 3 years PhD: 3 years
10	Course start and end date if applicable	September – July every year
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	CSC and WMO full scholarship
13	Basic Requirements	<i>BSc candidates:</i> Must be younger than 25 years of age on 1 September of the year of the commencement of study; <i>MSc candidates:</i> Must be younger than 35 years of age on 1 September; of the year of the commencement of study. Must hold a BSc degree and IELTS or TOFEL certificate; <i>PhD candidates:</i> Must be younger than 40 years of age on 1 September of the year of the commencement of study and must hold a MSc degree.
14	Language	BSc in Chinese, Chinese Proficiency Test (HSK) Level III Mandatory  MSc and PhD can be in English or in Chinese, IELTS 6.0 or TOEFL certificate is recommended if in English
15	Number of awards per year (or per course)	15
16	Institution Online application	Mandatory

1	Host Country	China
17	Admission from Institution	Mandatory
18	Application forms send to WMO	<ol style="list-style-type: none"> <li>1. WMO FNF</li> <li>2. Copy of the completed CSC online application form</li> <li>3. Pre-admission from NUIST or Hohai</li> </ol>
19	Applications close date	End of March for autumn start
20	Contact information	<p><a href="mailto:ouzhou@csc.edu.cn">ouzhou@csc.edu.cn</a></p> <p>NUIST: <a href="mailto:caiyi@nuist.edu.cn">caiyi@nuist.edu.cn</a></p> <p>Hohai: <a href="mailto:183984639@qq.com">183984639@qq.com</a></p>

## 1.2 Nanjing University of Information Science and Technology, China

1	Host Country	China
2	Host institution(s)	Nanjing University of Information Science & Technology (NUIST)
3	Website	<a href="https://gjy.nuist.edu.cn">https://gjy.nuist.edu.cn</a>
4	Location of Institution(s)	Nanjing, China
5	Address of Institution	219 Ningliu Road, Nanjing, Jiangsu Province, China
7	Course type	MSc and PhD Programmes
8	Faculty/Departments/Majors	<i>MSc programme:</i> Meteorology, Applied Meteorology <i>PhD programme:</i> various meteorological related subjects, please refer to the website
9	Duration of study	<i>MSc programme:</i> 2 years <i>PhD programme:</i> 3 years
10	Course start and end date if applicable	September – July every year
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	NUIST and WMO full scholarship
13	Basic Requirements	Applicants shall have bachelor's degree or master's degree in meteorology or related fields with good academic performance and research ability. <i>MSc candidates</i> must be less than 35 years old on 1 September of the year they start their studies. <i>PhD candidates</i> must be less than 40 years old on 1 September of the year they start their studies.
14	Language	English, IELTS 6.0 or TOEFL 80 is recommended
15	Number of awards per year (or per course)	10
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory
18	Application forms send to WMO	1. WMO FNF; 2. Pre-admission letter from NUIST
19	Applications close date	End of March for autumn start
20	Contact information	Tel: 86–25–58699848, Email: <a href="mailto:caiyi@nuist.edu.cn">caiyi@nuist.edu.cn</a>

**1.3 Hohai University, China**

1	Host Country	China
2	Host institution(s)	Hohai University
3	Website	<a href="http://ie.hhu.edu.cn/">http://ie.hhu.edu.cn/</a>
4	Location of Institution(s)	Nanjing, China
5	Address of Institution	No. 1, Xikang Road, Gulou District, Nanjing, China
7	Course type	MSc or PhD programme
8	Faculty/Departments/Majors	<ol style="list-style-type: none"> <li>1. Hydrology and Water Resources</li> <li>2. Agriculture Engineering</li> <li>3. Water Conservancy and Hydropower Engineering;</li> <li>4. Harbour, Coastal and Offshore Engineering</li> </ol>
9	Duration of study	3 years
10	Course start and end date if applicable	September – July every year
11	Target Region and countries	Least Developed and Developing countries
12	Fellowship summary	Hohai and WMO full fellowship
13	Basic Requirements	<p><i>Applicants</i> shall have bachelor's degree or master's degree in meteorology or related fields with good academic quality and research ability, have a good command of English and must be recommended by WMO.</p> <p><i>MSc candidates</i> must be less than 36 years old on 1 September of the year they start their studies.</p> <p><i>PhD candidates</i> must be less than 41 years old on 1 September of the year they start their studies.</p>
14	Language	English, IELTS 6.0 is recommended
15	Number of awards per year (or per course)	20
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory
18	Application forms send to WMO	<ol style="list-style-type: none"> <li>1. WMO FNF</li> <li>2. Pre-admission letter from Hohai</li> </ol>
19	Applications close date	End of March for autumn start
20	Contact information	Email: <a href="mailto:183984639@qq.com">183984639@qq.com</a>



**2 WMO-Ecole Nationale de la Météorologie (ENM), Toulouse, France**

1	Host Country	France
2	Host institution(s)	ENM/Météo-France
3	Website	<a href="http://www.enm.meteo.fr/">http://www.enm.meteo.fr/</a>
4	Location of Institution(s)	Toulouse, France
5	Address of Institution	42, avenue Gaspard Coriolis BP 45712 31057 Toulouse Cedex 1, France
7	Course type	<ol style="list-style-type: none"> <li>1. Engineer and Technician courses (BIP-M and BIP-MT)</li> <li>2. MSc in Meteorology and Climate Sciences</li> <li>3. Specialized training</li> <li>4. Vocational training</li> <li>5. Meteorology and Management</li> </ol>
8	Faculty/Departments/Majors	Meteorology and Climate
9	Duration of study	1 week to 3 years
10	Course start and end date if applicable	Variable (check website)
11	Target Region and countries	Least developed and developing countries (check website)
12	Fellowship summary	WMO and ENM full/partial fellowship
13	Basic Requirements	Proficiency in the course language Variable depending on programmes
14	Language	French
15	Number of awards per year (or per course)	Variable
16	Institution Online application	N/A

1	Host Country	France
17	Admission from Institution	<p>For continuous training and <i>Météorologie et management</i> course</p> <p>Mandatory</p> <ol style="list-style-type: none"> <li>1. Procedure to apply to be found in the announcement letter on the website;</li> <li>2. Motivation letter with registration form signed by PR, to be sent to <a href="mailto:training@meteo.fr">training@meteo.fr</a>;</li> <li>3. Complete resume;</li> <li>4. Copy of passport.</li> </ol> <p>For initial training, application through <a href="http://www.campusfrance.org/fr/user/register">Campus France</a> site (<a href="http://www.campusfrance.org/fr/user/register">http://www.campusfrance.org/fr/user/register</a>)</p>
18	Application forms send to WMO	<ol style="list-style-type: none"> <li>1. WMO FNF</li> <li>2. Admission letter from ENM</li> </ol>
19	Applications close date	End of March for autumn start
20	Contact information	Email: <a href="mailto:training@meteo.fr">training@meteo.fr</a>

**3 Leibniz Universität Hannover, Hannover, Germany**

1	Host Country	Germany
2	Host institution(s)	Institute for Hydrology and Water Resources Management, Leibniz Universität Hannover
3	Website	<a href="http://www.watenv.de">http://www.watenv.de</a>
4	Location of Institution(s)	Hannover, Germany
5	Address of Institution	Appelstrasse 9A, 30167 Hannover, Germany
7	Course type	MSc programme
8	Faculty/Departments/Majors	Water Resources Management
9	Duration of study	2 years
10	Course start and end date if applicable	1 October – 30 September
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	WMO and LUH full fellowship
13	Basic Requirements	BSc in Water engineering and related subjects
14	Language	English, CEFR C1 required
15	Number of awards per year (or per course)	Variable
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory
18	Application forms send to WMO	1. WMO FNF 2. Admission letter from University
19	Applications close date	University: 15 January(every year) WMO: End of March for autumn start
20	Contact information	Email: <a href="mailto:starke@iww.uni-hannover.de">starke@iww.uni-hannover.de</a>

**4 Ewha Womans University, Seoul, Republic of Korea**

1	Host Country	Republic of Korea
2	Host institution(s)	Department of Climate and Energy Systems Engineering, Ewha Woman University
3	Website	<a href="http://cese.ewha.ac.kr">http://cese.ewha.ac.kr</a>
4	Location of Institution(s)	Seoul, Republic of Korea
5	Address of Institution	52, Ewhayeodae-gil, Seodaemun-gu Seoul 03760, Republic of Korea
7	Course type	Master of Science
8	Faculty/Departments/Majors	1. Numerical Weather Prediction 2. Dynamic Meteorology 3. Climate Physics 4. Synoptic Meteorology 5. Satellite Meteorology 6. Remote Sensing
9	Duration of study	2 years (4 semesters/per course)
10	Course start and end date if applicable	March – February
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	WMO and EWU F2 full fellowship
13	Basic Requirements	Female candidate only. Master's: Applicant must have completed a four-year-course university or university-equivalent course and acquired a bachelor's degree.
14	Language	English/Korean: Applicant must meet the language requirements stated on the website: TOEFL(PBT 550, iBT 80), IELTS 5.5, New TEPS 326/TOPIK Level 4
15	Number of awards per year (or per course)	2
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory
18	Application forms send to WMO	1. FNF 2. Admission letter from EWU

1	Host Country	Republic of Korea
19	Applications close date	EWU: EWU's online application opens in September ( <a href="http://isa.ewha.ac.kr">http://isa.ewha.ac.kr</a> ) WMO: 30 November each year for spring start
20	Contact information	Department of Climate and Energy Systems Engineering Email: <a href="mailto:e600171@ewha.ac.kr">e600171@ewha.ac.kr</a>

**5 IHE Delft, Institute for Water Education, Delft, the Netherlands**

1	Host Country	The Netherlands
2	Host institution(s)	IHE Delft, Institute for Water Education
3	Website	<a href="https://www.un-ihe.org/">https://www.un-ihe.org/</a>
4	Location of Institution(s)	Delft, the Netherlands
5	Address of Institution	P.O. Box 3015 2601 DA, Delft, the Netherlands
7	Course type	MSc programme
8	Faculty/Departments/Majors	MSc programme in Water and Sustainable Development
9	Duration of study	12 months
10	Course start and end date if applicable	first week November – third week October
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	WMO and IHE full fellowship, travel cost to be borne by fellow
13	Basic Requirements	BSc degree in relevant field
14	Language	English: <a href="https://www.un-ihe.org/english-language-requirements">https://www.un-ihe.org/english-language-requirements</a>
15	Number of awards per year (or per course)	1–2
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory
18	Application forms send to WMO	1. WMO FNF 2. Admission letter from IHE
19	Applications close date	End of March for autumn start
20	Contact information	Email: <a href="mailto:i.melis@un-ihe.org">i.melis@un-ihe.org</a> , <a href="mailto:m.baburek@un-ihe.org">m.baburek@un-ihe.org</a>

## 6 Russian State Hydrometeorological University, St. Petersburg, Russian Federation

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1	Host Country	Russian Federation
2	Host institution(s)	Russian State Hydrometeorological University (RSHU)
3	Website	<a href="http://www.rshu.ru/">http://www.rshu.ru/</a> <a href="http://www.rshu.ru/eng/">http://www.rshu.ru/eng/</a> <a href="http://ums.rshu.ru/">http://ums.rshu.ru/</a> <a href="http://apply.rshu.ru/content/eng/howtoapply/fellowship/">http://apply.rshu.ru/content/eng/howtoapply/fellowship/</a>
4	Location of Institution(s)	St. Petersburg, Russian Federation
5	Address of RTC	79, Voronezhskaya str. Saint Petersburg, 192007 Russian Federation
7	Course type	BSc, MSc and PhD programmes
8	Faculty/Departments/ Majors	Meteorology, Hydrology, Ecology and Environmental Physics, Oceanography.
9	Duration of study	BSc: 4+1 years MSc: 2+1 years PhD: 3+1 years (1 year in Russian language if needed)
10	Target Region and countries	Least developed and developing countries
11	Fellowship summary	WMO and RSHU full fellowship
12	Basic Requirements	<i>BSc candidates:</i> Must be younger than 30 years of age on 1 September of the start of the year of study (exclusive) <i>MSc candidates:</i> Must be younger than 35 years of age on 1 September of the start of the year of study (exclusive); Must hold a BSc degree <i>PhD candidates:</i> Must be younger than 60 years of age on 1 September of the commencement year of study (exclusive); Must hold a MSc degree.
13	Language	Russian
14	Number of awards per year	20
15	Institution Online application	Mandatory: <a href="https://education-in-russia.com">https://education-in-russia.com</a> All RSHU candidates should obtain the Quota Scholarship of the Russian Federation which covers tuition fee.
16	Admission from Institution	Mandatory. Please refer to the footnotes.

1	Host Country	Russian Federation
17	Application forms send to WMO	<ol style="list-style-type: none"> <li>1. WMO FNF</li> <li>2. Confirmation from RSHU that candidate participates at the procedure of Quota Scholarship of the Russian Federation Government</li> <li>3. Copies of all supporting documents</li> </ol>
18	Applications close date	<p>For WMO: End of March for autumn start</p> <p>Registration deadline for the Quota Scholarship of Russian Federation:</p> <p>Countries of near abroad – September-November</p> <p>Countries of far abroad September – October</p>
19	Contact information	Please contact <a href="mailto:wmo.mobility@rshu.ru">wmo.mobility@rshu.ru</a> , <a href="mailto:ums@rshu.ru">ums@rshu.ru</a> for the documents required.

### RSHU application step-by-step guide for WMO fellowships (2022 enrolment)

1. All RSHU candidates should obtain the Quota Scholarship of the Government of the Russian Federation. Candidates should provide WMO with the pre-admission letter from RSHU that he/she has participated in the Quota Scholarship selection procedure.
2. To obtain the Quota Scholarship, candidates must apply to the Russian Consulate/Embassy or to the Russian Centre for Science and Culture (<http://rs.gov.ru/en/contacts>) in their respective country. Please remember that the admission deadline for the Quota Scholarship is different in each country, do not forget to check the website.
3. Please contact RSHU in advance for more detailed information and the list of required documents.

### Процедура подачи заявки на стипендию ВМО для обучения в РГГМУ:

1. Все кандидаты РГГМУ должны получить квоту Правительства Российской Федерации. Кандидат должен предоставить в ВМО письмо-подтверждение от РГГМУ об участии в конкурсе на квоту Правительства РФ.
2. Чтобы получить квоту Правительства РФ, кандидат должен обратиться в Посольство России или Российский центр науки и культуры (<http://rs.gov.ru/ru/contacts>) в своей стране. Важно: сроки подачи заявки на квоту Правительства РФ в каждой стране различны, не забывайте проверять сайт! Обычно прием заявок начинается в декабре.
3. Свяжитесь с РГГМУ для получения более подробной информации и актуального списка необходимых документов.

Contact:

International Relations Office,  
Russian State Hydrometeorological University,  
Saint Petersburg, Russian Federation

Email: [wmo.mobility@rshu.ru](mailto:wmo.mobility@rshu.ru), [ums@rshu.ru](mailto:ums@rshu.ru)

Tel: 8 (812) 633 01 96



**7.1 University of Reading, Reading, United Kingdom**

1	Host Country	The United Kingdom of Great Britain and Northern Ireland (UK)
2	Host institution(s)	University of Reading
3	Website	<a href="http://www.met.reading.ac.uk/pg-taught">http://www.met.reading.ac.uk/pg-taught</a>
4	Location of Institution(s)	Reading, United Kingdom
5	Address of Institution	Whiteknights Reading, RG6 6BB, United Kingdom
7	Course type	MSc in Applied Meteorology and Climate with Management*
8	Faculty/Departments/Majors	Department of Meteorology
9	Duration of study	12 months
10	Course start and end date if applicable	September – September each year
11	Target Region and countries	Developing countries
12	Fellowship summary	WMO and Met Office full fellowship
13	Basic Requirements	Normally a good honours degree (2.2 or above), or equivalent from a university outside the UK, in a mathematical/physical science or a closely related subject. Degrees in environmental or agricultural sciences or geography may be acceptable if maths and physics have been studied to A level or equivalent. Candidates with different or slightly lower qualifications, or who have significant professional experience may be considered. Please contact: <a href="mailto:met-infosec@lists.reading.ac.uk">met-infosec@lists.reading.ac.uk</a> to enquire.
14	Language	English IELTS: 6.5 overall with no element less than 5.5 (or equivalent) is required
15	Number of awards per year	Up to 5
16	Institution Online application	Mandatory
17	Admission from Institution	Mandatory**
18	Application forms send to WMO	1. WMO FNF 2. Letter of Offer from University of Reading 3. UK Application Form (7.1 Annex)
19	Applications close date	University of Reading: End of February WMO: End of March for autumn start
20	Contact information	Email: <a href="mailto:met-mscinfo@lists.rdg.ac.uk">met-mscinfo@lists.rdg.ac.uk</a>

\*This course may merge with the Applied Meteorology course at some point in the future. Course content and options will remain the same, including management components which will be mandatory for WMO Fellows.

\*\* Application to University of Reading should be made as early as possible. The University can issue a conditional offer letter to send to WMO prior to the applicant passing the IELTS test, but the required Letter of Unconditional offer will not be issued until the language condition has been met. If you have any queries about this, please contact [met-mscinfo@lists.rdg.ac.uk](mailto:met-mscinfo@lists.rdg.ac.uk)

**UK APPLICATION FORM  
(ADDITIONAL INFORMATION)**

**MSc in Applied Meteorology and Climate with Management**

Ref.: 30157/2021-14 MS/ETR

<b>Name of Applicant</b>	
<b>Current Employer</b>	

**Statement of your suitability for the proposed fellowship:**

Please provide a statement below, explaining why you are a suitable candidate for this fellowship, including:

- Your main motivation for applying for this course
- Your professional plans for the future and how you would like to develop your career within your organization
- How you think you will be able to contribute to the future plans and strategic development of your organization, as a result of skills gained from this fellowship

(Please continue onto another page, if required)

**Signature of applicant:**

**Date:**

**7.2 European Centre for Medium Range Weather Forecast, Reading, UK**

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1	Host Country	The United Kingdom of Great Britain and Northern Ireland (UK)
2	Host institution(s)	European Centre for Medium Range Weather Forecast (ECMWF)
3	Website	<a href="http://www.ecmwf.int">http://www.ecmwf.int</a>
4	Location of Institution(s)	Reading, United Kingdom
5	Address of Institution	Shinfield Park, Reading, RG2 9AX, United Kingdom
7	Course type	N/A
8	Faculty/Departments/Majors	N/A
9	Duration of temporary secondment	up to 12 months
10	Secondment start and end date if applicable	Variable
11	Target Region and countries	Least developed and developing countries
12	Fellowship summary	The temporary attachment of the expert will work with designated experts at ECMWF to enhance skills as appropriate in areas such as global weather prediction in the medium range, extended-range forecast for up to one year ahead, use of advanced computer modelling techniques to analyse observations and predict future weather.
13	Basic Requirements	Qualifications will depend on the focus of the available opportunities for placement at ECMWF.
14	Language	English
15	Number of awards per year	1
16	Institution Online application	Information and submission: <a href="https://www.ecmwf.int/en/learning/training/wmo-fellowship-scheme">https://www.ecmwf.int/en/learning/training/wmo-fellowship-scheme</a>
17	Application forms send to WMO	WMO FNF
18	Applications close date	End of March
19	Contact information	Email: <a href="mailto:Becky.Hemingway@ecmwf.int">Becky.Hemingway@ecmwf.int</a>

**8 NOAA, Washington DC, USA**

1	Host Country	United States of America
2	Host institution(s)	NOAA/National Weather Service
3	Website	<a href="http://www.wpc.ncep.noaa.gov/international/intI2.shtml">http://www.wpc.ncep.noaa.gov/international/intI2.shtml</a>
4	Location of Institution(s)	Washington DC
5	Address of Institution	5830 University Research Court, College Park, Maryland, USA
7	Course type	Training Certificate and/or Competencies Certificate
8	Faculty/Departments/Majors	NCEP International Desks
9	Duration of study	4 months
10	Course start and end date if applicable	Variable
11	Target Region and countries	WMO RA I (Africa), RA III (South America) and RA IV (North America, Central America and the Caribbean)
12	Fellowship summary	Training emphasizes the understanding of atmospheric dynamics and the application of numerical model guidance for the generation of quantitative precipitation forecast products, sub-seasonal and climate forecasts. It applies WMO competencies standards for general forecaster.
13	Basic Requirements	Open to all meteorologists and technicians (forecasters), with priority given to meteorologists.
14	Language	English, Spanish for RA III
15	Number of awards per year	Opportunity is not available for 2022 new applicants
16	Institution Online application	N/A
17	Admission from Institution	Mandatory
18	Application forms send to WMO	WMO FNF
19	Applications close date	Training slots will be assigned a year in advance, with nomination package on file no later than four months prior to the beginning of the fellowship.
20	Contact information	Email: <a href="mailto:ethan.jessup@noaa.gov">ethan.jessup@noaa.gov</a> African Desk: <a href="mailto:wassila.thiaw@noaa.gov">wassila.thiaw@noaa.gov</a> South America/Tropical Desks: <a href="mailto:michel.davison@noaa.gov">michel.davison@noaa.gov</a> , <a href="mailto:James.a.Nelson@noaa.gov">James.a.Nelson@noaa.gov</a>

**9 The World Academy of Sciences (TWAS), Trieste, Italy**

1	Host Countries	Seven emerging countries: Brazil, China, India, Malaysia, Pakistan, South Africa and Thailand
2	Host institution(s)	TWAS has about 1000 eligible host institutions in six developing countries with 11 programme partners
3	Website	<a href="http://twas.org/opportunities/fellowships/phd">http://twas.org/opportunities/fellowships/phd</a>
4	Location of Institution(s)	Trieste, Italy
5	Address of Institution	Refer to <a href="http://twas.org/">http://twas.org/</a>
6	Course type	PhD in Natural Sciences
7	Faculty/Departments/Majors	Meteorology, hydrology and environmental science related
8	Duration of study	PhD: 3–5 years
9	Course start and end date if applicable	Various among partners
10	Target Region and countries	Least Developed and Developing countries
11	Fellowship summary	Full coverage of full PhD costs
12	Basic Requirements	MSc degree, preliminary admission letter from eligible host institution according to chosen host country and programme partner
13	Language	English, Portuguese
14	Number of awards per year (or per course)	10 PhD fellowships for WMO
15	Institution Online application	N/A
16	Admission from Institution	Mandatory: Must have preliminary admission letter from eligible host institution BEFORE applying, must comply with all eligibility criteria of the selected programme e.g. age limit etc.
17	Application forms to be sent to WMO	1. WMO FNF 2. TWAS partner preliminary admission letter
18	Application forms to be sent to TWAS	Online portal for application
19	Applications close date	TWAS: Ranges between 31 August to 15 September each year, but some deadlines change yearly. WMO: End of September each year
20	Contact information	Email: <a href="mailto:fellowships@twas.org">fellowships@twas.org</a>

**10 Universidad Nacional del Litoral, Santa Fe, Argentina**

Ref.: 30157/2021-14 MS/ETR

1	Host Country	Argentina
2	Host institution(s)	Faculty of Engineering and Water Sciences, Universidad Nacional del Litoral
3	Website	<a href="http://fich.unl.edu.ar">http://fich.unl.edu.ar</a> <a href="http://fich.unl.edu.ar/pagina/carreras-posgrado/70/">http://fich.unl.edu.ar/pagina/carreras-posgrado/70/</a>
4	Location of Institution(s)	Santa Fe, Argentina
5	Address of Institution	Ciudad Universitaria, Ruta Nacional N° 168 – Km 472,4. (3000), Santa Fe, Argentina
7	Course type	1. Mater's in Water Resources Engineering 2. Master's in Integrated Water Resources Management
8	Faculty/Departments/Majors	Faculty of Engineering and Water Sciences, Universidad Nacional del Litoral (FICH-UNL)
9	Duration of study	2 (two) years
10	Course start and end date if applicable	March – December next year
11	Target Region and countries	WMO RA III and Latin-American countries
12	Fellowship summary	WMO and University full fellowship
13	Basic Requirements	Applicants must have a pre-graduate degree (Engineer, Bachelor or similar) in related disciplines granted by Argentina, or foreign universities recognized by the competent authorities.
14	Language	Spanish
15	Number of awards per year (or per course)	2
16	Institution Online application	<a href="http://fich.unl.edu.ar/pagina/inscripcion-carreras-posgrado-2021/74314/">http://fich.unl.edu.ar/pagina/inscripcion-carreras-posgrado-2021/74314/</a>
17	Admission from Institution	Mandatory
18	Application forms send to WMO	1. WMO FNF 2. Admission letter (FICH-UNL)
19	Applications close date	4 February 2022 for end of March start
20	Contact information	Dra Marcela Perez Email: <a href="mailto:maperez@fich.unl.edu.ar">maperez@fich.unl.edu.ar</a> ; <a href="mailto:perezmarcelaa@gmail.com">perezmarcelaa@gmail.com</a>

## WMO Group Training Opportunities on Numerical Weather Prediction

Ref.: 30157/2021-14 MS/ETR

Region	Host Members	Host institutions
I	Algeria	WMO Regional Training Centre Hydrometeorological Institute for Training and Research (IHFR)
II	Egypt	WMO Regional Training Centre
III	India	WMO Regional Training Centre Meteorological Training Institute
IV	Indonesia	WMO Regional Training Centre State College of Meteorology, Climatology and Geophysics



**1 Institut hydrométéorologique de formation et de recherche, Algérie**

1	Membre hôte	Algérie
2	Institution (s) d'accueil	Institut hydrométéorologique de formation et de recherche (IHFR)
3	Site Internet	<a href="http://ihfr.edu.dz/learning">ihfr.edu.dz/learning</a>
4	Emplacement (ville) de l'établissement	Oran
5	Adresse de l'Institut	Boîte postale 7019 Hai ESSeddikia, 31025 Oran, Algérie
7	Type de cours	sur le campus ou cours en ligne
8	Contenu du cours	Le cours sera scindé en deux parties à savoir : Une partie théorique dans laquelle les notions de bases nécessaires à la compréhension de différents schémas d'intégration numérique et de paramétrisation physique seront traités. Tandis que la seconde sera dédiée à la mise en marche du modèle WRF (modèle open source) et la réalisation de plusieurs simulations numériques, permettant une bonne familiarization avec les différents codes utilisés dans les modèles numériques ainsi que les techniques de la paramétrisation physique. Pour plus de détail prière de consulter le programme de formation.
9	Durée des études	un mois
10	Date de début du cours	du 15 Mai au 09 Juin 2022 (temporaire)
11	Région cible et membres	Association régionale de l'OMM I Membres en développement
12	Exigences de base	Les météorologues ayant exercé au moins deux années dans le domaine de la prévision numérique de temps et titulaire d'un diplôme de Météorologiste (OMM).
13	Langue	Français
14	Nombre de stagiaires	Sur le campus 15
15	Application en ligne de l'institution	Optionnelle
16	Admission de l'établissement	Obligatoire
17	Formulaires de demande envoyés à l'OMM	1. OMM FNF 2. Lettre de préadmission de l'établissement d'accueil

1	Membre hôte	Algérie
18	Date de clôture des candidatures	19 Mars 2021
19	Contact information	Email: <a href="mailto:ihfr@ihfr.edu.dz">ihfr@ihfr.edu.dz</a> , <a href="mailto:mtabetaoul@yahoo.fr">mtabetaoul@yahoo.fr</a>

**2 WMO Regional Training Centre, Egypt**

1	Host Member	Egypt
2	Host institution(s)	WMO Regional Training Centre Egyptian Meteorological Authority (EMA)
3	Website	<a href="http://www.nwp.gov.eg">http://www.nwp.gov.eg</a> (temporary out of service for upgrade)
4	Location(city) of Institution(s)	Cairo
5	Address of Institution	Koubri El-Ouobba, PO Box 11784, Cairo, Egypt
7	Course type	On campus (followed the online phase)
8	Main course content	Consolidate and follow up to the 2021 online phase, include hands on exercise and/or laboratory work. Linux OS and FORTRAN (25 h); Weather Research and Forecasting (WRF) Model (75h); WRF Post Processing Application and Visualization (25h) Projects Assessment (Projects: (10 hours) (Week no. 6)) Probably another more week for review of subjects of online course before the face to face course. Detailed content will be issued in separate announcement in due course.
9	Duration of study	6 weeks and will probably be extended for 1 week to review the online part
10	Course start date	To be decided (TBD) in 2022
11	Target Region and Members	WMO RA I and RA II Arabic speaking Developing Members
12	Basic Requirements	Meteorologist with BSc degree or equivalent, 2-year working experiences.
13	Language	English and Arabic
14	Number of awards	15 (will be mainly from the online course participants in 2021 with exceptional candidates considered case by case)
15	Institution Online application	Optional
16	Admission from Institution	Mandatory
17	Application forms send to WMO	1. WMO FNF 2. Pre-admission letter from host institution
18	Applications close date	Announcement will be released in due course
19	Contact information	Mr Mohamed Tawfik: <a href="mailto:mohamedtawfik99@gmail.com">mohamedtawfik99@gmail.com</a>

**3 Meteorological Training Institute, India**

1	Host Member	India
2	Host institution(s)	Government of India, Ministry of Earth Sciences, India Meteorological Department, Meteorological Training Institute WMO RTC Pune component in India
3	Website	<a href="http://www.imdpune.gov.in/training/training.html">http://www.imdpune.gov.in/training/training.html</a>
4	Location(city) of Institution(s)	Pashan, Pune, India
5	Address of Institution	Meteorological Training Centre (MTI), IMD Colony Campus. Dr Homi Bhaba Road, Pashan, Pune, Pin 411008, Maharashtra State , India
7	Course type	On campus course (followed the online phase)
8	Main course content	Consolidate and follow up to the 2021 online phase, include hands on exercise and/or laboratory work. Detailed content will be issued in separate announcement in due course.
9	Duration of study	2 weeks
10	Course start date	TBD 2022
11	Target Region and Members	WMO Regional Association II Developing Members
12	Basic Requirements	Meteorologist with BSc degree or equivalent, with 2-year working experiences.
13	Language	English
14	Number of awards	15 (will be mainly from the online course participants in 2021 with exceptional candidates considered case by case)
15	Institution Online application	Optional
16	Admission from Institution	Mandatory
17	Application forms send to WMO	1. WMO FNF 2. Pre-admission letter from host institution
18	Applications close date	Announcement will be released in due course
19	Contact information	Dr Somenath Dutta Head, Meteorological Training Centre (MTI), India Meteorological Department, Pashan, Pune-411008, India Email: <a href="mailto:dutta.dr.somenath@gmail.com">dutta.dr.somenath@gmail.com</a> Shri.R.K.Giri Head, India Meteorological Department, Mausam Bhavan, Lodi Road, New Delhi-110003 Email: <a href="mailto:rk.giriccs@gmail.com">rk.giriccs@gmail.com</a>

**4 The Agency for Meteorology, Climatology and Geophysics (BMKG), Indonesia**

1	Host Member	Indonesia
2	Host institution(s)	WMO Regional Training Centre, Indonesia
3	Website	<a href="https://lms.bmkg.go.id/">https://lms.bmkg.go.id/</a>
4	Location(city) of Institution(s)	BMKG Training Facility-Citeko, West Java BMKG HQ-Kemayoran, Jakarta
5	Address of Institution	The Agency for Meteorology, Climatology and Geophysics (BMKG), Kemayoran, Jakarta
7	Course type	On campus course (followed the online phase)
8	Main course content	<ol style="list-style-type: none"> <li>1. Ubuntu Linux System Operation</li> <li>2. Weather Research and Forecasting (WRF) Model</li> <li>3. Post Processing Application and Visualization</li> <li>4. WRF Simulation in High Performance Computing (HPC)</li> <li>5. Advance WRF Model</li> <li>6. Application on NWP Products in BMKG Daily Weather Forecast</li> </ol>
9	Duration of study	One months
10	Course start date	second half of 2022
11	Target Region and Members	WMO Regional Association V Developing Members
12	Basic Requirements	Meteorologist with BSc degree or equivalent, with 2-year working experiences.
13	Language	English
14	Number of awards	15 (will be mainly from the online course participants in 2021 with exceptional candidates considered case by case)
15	Institution Online application	Optional
16	Admission from Institution	Mandatory
17	Application forms send to WMO	<ol style="list-style-type: none"> <li>1. WMO FNF</li> <li>2. Pre-admission letter from host institution</li> </ol>
18	Applications close date	Announcement will be released in due course
19	Contact information	Ms Ratih Prasetya Email: <a href="mailto:apply.rtcbmkg@bmkg.go.id">apply.rtcbmkg@bmkg.go.id</a> ; <a href="mailto:ratih.prasetya@bmkg.go.id">ratih.prasetya@bmkg.go.id</a>