

25 August 2021

English only

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**Committee on the Peaceful  
Uses of Outer Space**

**Sixty-fourth session**

Vienna, 25 August–3 September 2021

**Report on the Evaluation Mission to Roscosmos Corporate  
Academy**

**(Moscow, 10 to 13 August 2021)**

**I. Introduction**

1. In its resolution 45/72 of 11 December 1990 the General Assembly of the United Nations endorsed the recommendation of the Working Group of the Whole of the Scientific and Technical Subcommittee, as endorsed by the Committee on the Peaceful Uses of Outer Space (COPUOS), that the United Nations should lead, with the active support of its specialized agencies and other international organizations, an international effort to establish regional centres for space science and technology education in existing national/regional educational institutions in the developing countries<sup>1</sup>.

2. In its resolution 50/27 of 6 December 1995 the United Nations General Assembly also endorsed the recommendation of COPUOS that these centres be established on the basis of affiliation to the United Nations as early as possible and that such affiliation would provide the centres with the necessary recognition, strengthening the possibilities of attracting donors and of establishing academic relationships with national and international space-related institutions<sup>2</sup>.

3. The regional centres for space science and technology education, affiliated to the United Nations, namely, the African regional centres for space science and technology education in the French and English languages, located in Morocco and Nigeria, respectively, the centres for space science and technology education in Asia and the Pacific, located in China and India, the regional centre for space science and technology education for Latin America and the

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\* Reissued for technical reasons on 26 August 2021.

<sup>1</sup> A/AC.105/456, Annex II, Paragraph 4 (n), Report of the Scientific and Technical Subcommittee on the Work of its 27<sup>th</sup> Session, 12 March 1990, United Nations, New York.

<sup>2</sup> A/RES/50/27, paragraph 30, International Cooperation in the Peaceful Uses of Outer Space, 5 February 1996, United Nations, New York.



Caribbean, with campuses located in Brazil and Mexico, and the centre for space science and technology education for Western Asia, located in Jordan. Detailed information is available on the website of the Office for Outer Space Affairs ([www.unoosa.org](http://www.unoosa.org)).

4. This evaluation report includes an account of the offer made by Roscosmos Corporate Academy to host an additional centre for space science and technology education in Eurasia, the observations made by the evaluation mission regarding the conditions and facilities offered for the centre and the content of their discussions with the governmental and institutional authorities interviewed.

### **A. Concept of the Regional Centre**

5. The Centre would be established and housed at a recognized institution of higher learning or research with existing education programmes in outer space disciplines. The Centre should be viable educational and research institution, capable of attaining high levels in providing education in all areas of space science and technology.

6. Each Centre will have a Governing Board, which will be the decision-making body that determines and modifies the Centre's overall policy and adopts its academic programmes. The Board would be composed of representatives from the host country, donor countries or institutions, countries of the region and the United Nations. The number of representatives on the Board would be limited to ensure expediency in its work. For the implementation of its programme, each Centre will be headed by a Director, who will have a small permanent staff at her/his disposal. The Director will also be a member of the Governing Board. The rest of the Centre's teaching staff will be hired, strictly on the basis of merit, for fixed terms from among the human resources available in the host country and in the countries of the region. When the Centre introduces other space-science disciplines and when so justified by the Centre's growth, the post of Director will be changed to that of President of the Centre, and every discipline or group of disciplines will be administered by a director.

7. The activities at each Centre are undertaken in two major phases. Phase I emphasizes the development and enhancement of the knowledge and skills of university educators and research and application scientists in both the physical and natural sciences as well as in analytical disciplines. This is accomplished over a nine-month period as laid out in the curricula of the education programme of each Centre. Phase II focuses on ensuring that the participants make use of the skills and knowledge gained in phase I in their pilot projects, which are to be conducted over a one-year period in their own countries. The projects will test the Centre's usefulness at minimal cost since the second-year assistance that the Centre will provide to its graduates will primarily consist of long-distance advisory services. The projects referred to above will be designed and developed by each participant with the assistance of the Centre's staff.

### **B. Regional Centres for Asia and Pacific, and Western Asia**

8. The Centre for Space Science and Technology Education in Asia and the Pacific Region (CSSTEAP) has been inaugurated on 1 November 1995 and provides courses at New Delhi, in the English language. Information about the Centre is available at <http://www.cssteap.org/>.

9. The Regional Centre for Space Science and Technology Education for Western Asia (RCSSTEWA) has been inaugurated on 29 May 2012 and provides courses at the Royal

Jordanian Geographic Centre (RJGC) in Amman, in the Arabic language. Information about the Centre is available at: [www.rjgc.gov.jo](http://www.rjgc.gov.jo)

10. The Regional Centre for Space Science and Technology Education in Asia and Pacific (RCSSTEAP-China) was inaugurated at the Beihang University in Beijing on 17 November 2014 and provides courses in the English language. Information about the Centre is available at: <http://rcssteap.buaa.edu.cn>

11. The proposal from Roscosmos Corporate Academy would complement the above listed regional centres by offering courses in the Russian and English languages, thereby enlarging opportunities available for participation from Asian and European countries.

## **II. Offer by the Government of the Russian Federation to host a Regional Centre**

12. At its fifty-eighth session held from 19 to 30 April 2021, the Scientific and Technical Subcommittee<sup>3</sup> of the Committee on the Peaceful Uses of Outer Space took note of the information provided by the Russian Federation explaining that the country was conducting consultations within a network of educational institutions to propose the establishment of a Regional Centre for Space Science and Technology Education, affiliated with the United Nations, and indicating its willingness to collaborate with other such regional centres in offering a high-quality educational degree in space science and technology. The Russian Federation made a technical presentation on a “Regional Eurasian Space Educational Centre, affiliated to the United Nations”<sup>4</sup>.

13. Following the proposal by the Russian Federation on the establishment of a Regional Centre, and in accordance with established practice, the Office for Outer Space Affairs extended an invitation<sup>5</sup> to all member States of COPUOS to nominate suitable experts to take part in a mission to evaluate Roscosmos Corporate Academy and the educational institutions located in Moscow, Samara, St. Petersburg and Krasnoyarsk. The purpose of the mission was to provide a report on the capacity of Roscosmos Corporate Academy and network of educational institutions to, jointly, host a Centre for Space Science and Technology Education.

### **A. Proposal by Roscosmos Corporate Academy**

14. A comprehensive report prepared by Roscosmos Corporate Academy on the proposed New Regional Centre for Space Science and Technology Education, affiliated to the United Nations, is contained in Annex B.

### **B. Network of educational institutions and scientific organizations**

15. The new Centre for Space Science and Technology Education in Eurasia would consist of a network integrating educational institutions of higher education and scientific organisations of the Russian Federation under the umbrella of Roscosmos Corporate Academy.

16. To date, the following educational institutions have expressed their willingness to participate in the educational activities of the new Centre in the Russian Federation:

<sup>3</sup> A/AC.105/1240, Chapter II, Section A, para. 61

<sup>4</sup> <https://www.unoosa.org/documents/pdf/copuos/stsc/2021/tech-58E.pdf>

<sup>5</sup> OOSA/2021/46/Corr., CU 2021/243 dated 21 June 2021

- Peoples' Friendship University of Russia (RUDN University), Moscow;
- Samara National Research University (Samara University), Samara;
- Bauman Moscow State Technical University (BMSTU or Bauman University) Moscow;
- Moscow Aviation Institute, Moscow;
- St. Petersburg State University of Aerospace Instrumentation, St. Petersburg;
- Reshetnev Siberian State University of Science and Technology (SibSAU or Reshetnev University), Krasnoyarsk;
- Tomsk State University of Control Systems and Radioelectronics (TUSUR University), Tomsk;
- Russian State Hydrometeorological University (RSHU), St. Petersburg; and
- The Southwest State University (SWSU), Kursk.

### III. Evaluation Mission

#### A. General remarks

17. **Mission objective:** The purpose of the evaluation mission is to provide an accurate and informative report of whether the government and host institutions visited can provide the support necessary for the Centre's successful establishment and sustained operation.

18. **Date of the mission:** 10-13 August 2021.

19. **Terms of reference of the mission:** The terms of reference of the evaluation mission were prepared on the basis of the proposal contained in Annex V (a) of document A/AC.105/534 and agreed by all experts (see Annex C).

20. Due to the coronavirus (COVID-19) pandemic and associated travel restrictions, the evaluation was carried out in a hybrid format, with some experts present on site in Russia while the majority of experts attended meetings and presentations remotely by videoconference.

21. Besides Roscosmos Corporate Academy, the evaluation mission reviewed the proposals of the Peoples' Friendship University of Russia (RUDN University) and Bauman Moscow State Technical University (BMSTU or Bauman University), located in Moscow, Samara National Research University (Samara University), located in Samara, Reshetnev Siberian State University of Science and Technology (SibSAU or Reshetnev University), located in Krasnoyarsk and Russian State Hydrometeorological University (RSHU), located in St. Petersburg.

22. **Agenda of the mission:** The detailed agenda of the evaluation mission (see Annex A) was prepared by the host country on the basis of the agenda proposal contained in Annex V (b) of document A/AC.105/534.

#### B. Members

23. The following 34 experts have been nominated by member States of COPUOS to take part in the mission to evaluate the offer of Roscosmos Corporate Academy in response to note verbale OOSA/2021/46/Corr., CU 2021/243 of 21 June 2021:

Mr. Ahmed Teleha AHMED, Minister Counsellor, Ethiopia;

Mr. Fariz ALIYEV, Business Development Department, the Azercosmos office, Azerbaijan (in person);

- Mr. Talal ALSEDAIRY, Saudi Space Commission, Saudi Arabia;
- Mr. Saoud ALSHOAILI, Ministry of Transport, Communication and Information Technology, Oman (online);
- Mr. Haithem AL-TWAIJRY, Saudi Space Commission, Saudi Arabia;
- Mr. Kofi ASARE, Ghana Space Science and Technology Institute, Ghana (online);
- Mr. Ilker BAYRAM, Turkish Space Agency, Turkey (online);
- Mr. Kamaruzzaman BIN WAHID, Department of Planning and Strategic Communication, Malaysia Space Agency, Malaysia (online);
- Mr. Pavol BOBIK, Institute of Experimental Physics of the Slovak Academy of Sciences, Slovakia (online);
- Ms. Noelle Riza D. CASTILLO, Space Policy and International Cooperation Bureau, Philippine Space Agency, the Philippines (online);
- Mr. Prakash CHAUHAN, CSSTEAP, Indian Space Research Organization, India (online);
- Mr. Gayane FAYE, Institut des Sciences de la Terre, Université Cheikh Anta DIOP, Senegal (online);
- Mr. Driss El HADANI, the Royal Center for Remote Sensing, Morocco (online);
- Mr. Mu'ammarr HADDADIN, Royal Jordanian Geographic Center, Jordan (in person);
- Mr. Rodrigo LEONARDI, Brazilian Space Agency, Brazil (in person);
- Mr. In Sang MOON, Korea Aerospace Research Institute, Republic of Korea (online);
- Mr. Anibal MENDOZA, Agencia Espacial del Paraguay, Paraguay (online);
- Mr. Marcello OGLIETTI, Commission for Space Activities, Argentina (online);
- Mr. Frederic OUTTARA, l'Université Norbert Zongo, Burkina Faso (online);
- Mr. Burak PEHLIVAN, Turkish Space Agency, Turkey (online);
- Mr. Gabriel Salles Maria de Macedo REGO, Brazilian Space Agency, Brazil (online);
- Mr. Julian RODRÍGUEZ, Universidad Industrial de Santander, Bucaramanga, Colombia (online);
- Mr. Alejandro ROMÁN MOLINAS, Agencia Espacial del Paraguay, Paraguay (online);
- Ms. Hebe ROMERO, Agencia Espacial del Paraguay, Paraguay (online);
- Mr. Oswaldo, ROMERO MICHILENA, Instituto Geográfico Militar, Ecuador (online);
- Mr. Ararat SAHAKYAN, Ministry of High-Tech Industry of the Republic of Armenia, Armenia (online);
- Mr. Habib SALIM, Syrian General Authority for Remote Sensing, Syrian Arab Republic (online);
- Mr. Edwin SÁNCHEZ, Instituto Tecnológico de Santo Domingo, Dominican Republic (online);
- Mr. Mohamed Akram SEDDIKI, Algerian Space Agency, Algeria (online);
- Mr. Robertus Heru TRIHARJANTO, National Aeronautics and Space, Indonesia (online);
- Mr. WADA Yoshio, Japan Aerospace Exploration Agency, Japan (in person);
- Mr. Jingnong WENG, Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) (Affiliated to the United Nations), China (online);
- Mr. YOSHIDA Toru, Embassy of Japan in the Russian Federation, Japan (online);
- Mr. Sergey ZOLOTROY, the Scientific and Engineering Republican Unitary Enterprise "Geoinformation Systems" of the National Academy of Sciences of Belarus, Belarus (online).

24. The following representatives of the Office for Outer Space Affairs facilitated and participated to the evaluation mission:

Ms. Sharafat Gadimova, International Committee on Global Navigation Satellite Systems (ICG);

Ms. Nathalie Ricard, Space Applications Section (SAS);

Ms. Natercia Rodrigues, Office of Director (OD).

### **C. Evaluation parameters**

25. This section presents the mission's evaluation of the current or expected condition for each of the parameters considered. The level to which the offer would meet with the perceived needs of the Centre is given as one of three categories: (i) Offered or Satisfactory (OS); (ii) Probably Satisfactory (PS); or (iii) Not Offered, Unsatisfactory or Unavailable (N) for each of the parameters and criteria identified below.

26. The evaluation scale is described in more detail as follows:

- *Offered or Satisfactory (OS)*: This means that the mission members are confident that the facilities, manpower or other needs of the Centre will be fulfilled by the proposed offer, even though these may not be currently available. Where appropriate it means that statements of support or in-country conditions and infrastructure are considered satisfactory.
- *Probably Satisfactory (PS)*: This means that the mission members are reasonably sure that the Centre's perceived needs will be satisfied by the offers or statements, but that existing facilities may need upgrading, that the proposal has not completely addressed all of the Centre's needs, or that formal approval of a particular part of the offer is expected but has not yet been given.
- *Not Offered, Unsatisfactory or Unavailable (N)*: This means that (i) the mission members believed that what was offered would not satisfy the needs of the Centre and that there was very little chance that a satisfactory upgrade could take place; (ii) the statements of offer did not have sufficient formal approval and had little likelihood of gaining that approval in the immediate future; (iii) no offer was made regarding particular facilities or requirements; or (iv) such facilities or requirements were not available and had very little chance of coming to fruition.

27. Additional background information on the evaluation parameters is provided in Annex V (a) of document A/AC.105/534, which contains the original proposal for the terms of reference for evaluation missions for the selection of the host institution(s) for the Regional Centres.

### **D. Schedule of work**

28. In accordance with the detailed agenda provided by the Government of the Russian Federation (see Annex A), the Evaluation Mission met at Roscosmos Corporate Academy on 10 August 2021 in Moscow. The Mission was received by representatives of the potential host institutions that, as a network, would constitute the Regional Centre:

Peoples' Friendship University of Russia (RUDN University), Moscow:

*Ms. Larisa EFREMOVA, Vice-Rector for International Affairs, RUDN University; and*

*Mr. Yury RAZOUMNY, Director of Academy of Engineering, RUDN University.*

Bauman Moscow State Technical University (Bauman University). Moscow:

*Mr. Dmitriy POSPEKHOV, Chief of Division for State Scientific Centres Coordination and Tracking, Department of Innovations and Prospective Research, Ministry of Science and Higher Education of the Russian Federation; and*

*Mr. Dmitriy DROBYSHEV, Chief of Department of the International Cooperation in Science and Education, BMSTU.*

Samara National Research University (Samara University), Samara:

*Mr. Anton GULBIS, Head of the International Cooperation Department, Samara University.*

Reshetnev Siberian State University of Science and Technology (SibSAU), Krasnoyarsk:

*Mr. Vladimir KURESHOV, First Vice-Rector, SibSAU; Mr. Pavel SNETKOV, Director of Institute of Supplementary Education, SibSAU.*

Russian State Hydrometeorological University (RSHU), St. Petersburg:

*Mr. Valery MIKHEEV, Rector, RSHU;*

*Ms. Daria SOKOLOVA, Deputy Director of the Institute of International Education, RSHU.*

29. Following a video-presentation by Roscosmos featuring achievements in spaceflight since 1957, introductory and welcoming statements were made by Mr. Kirill PORVATOV, Director General of Roscosmos Academy, Mr. Vasily GUDNOV, Head of Multilateral Cooperation Division, State Space Corporation Roscosmos, Mr. Dmitriy POSPEKHOV, Chief of Division for State Scientific Centres Coordination and Tracking, Department of Innovations and Prospective Research, Ministry of Science and Higher Education of the Russian Federation and Mr. Ivan IVANOV, Head of International Cooperation Center of Roscosmos Academy.

30. Ms. Simonetta DI PIPPO, the Director of the United Nations Office for Outer Space Affairs (UNOOSA) also addressed the hosts and the members of the Evaluation Mission. Ms. Sharafat Gadimova of UNOOSA made a presentation, reviewing the objectives of the Regional Centres and informing about the structure of the Evaluation Mission report.

31. Following welcoming statements, four experts from Azerbaijan, Brazil, Japan and Jordan, who were on-site, and experts online introduced themselves (see Section 3, item 3.2. Members of this report).

32. The representatives of Roscosmos made a presentation on the concept and organizational structure of the proposed Centre, and presented a report entitled “Report by Roscosmos Corporate Academy on the proposed new Regional Centre for Space Science and Technology Education (affiliated to the United Nations)” (see Annex B) and opened the floor for general discussions.

33. On-site guided tour of the Roscosmos Corporated Academy was provided to the on-site experts of the Evaluation Mission. The Evaluation Mission then proceeded to RUDN University and learned about its multi-disciplinary educational and research programmes.

34. The virtual part of the Evaluation Mission was live streamed on the Mind and ZOOM platforms by the Roscosmos Corporate Academy. The recording of presentations and the related materials were shared via the cloud storage with all Mission experts, which were made available until 13 August 2021.

35. On 11 August 2021, the Evaluation Mission visited the Bauman University and learned about the programmes and projects of the Youth Space Centre (YSC) of the Bauman University presented by Ms. Viktoria MAYOROVA, Director of YSC. Then the on-site experts of the Evaluation Mission were given a tour of the Space Technology Labs of the Bauman University Educational and Experimental Centre.
36. On 12 August 2021, the Evaluation Mission visited the Samara National Research University and learned about the University's educational programmes on Basic Space Technology and Global Navigation Satellite System.
37. On 13 August 2021, the Evaluation Mission heard presentations by the Reshetnev University (SibSAU), Krasnoyarsk and Russian State Hydrometeorological University (RSHU), St. Petersburg and learned about training courses on Satellite Meteorology and Remote Sensing of the Earth.
38. In the afternoon, a working meeting was held. On the basis of the information provided in the Roscosmos report (See Annex B), the observations of the offer, distributed to the Evaluation Mission experts by email, visits to the facilities indicated above and various questions and answer discussions with representatives of Roscosmos Corporate Academy and institutions supporting the proposal, the Evaluation Mission completed a first draft of its evaluation. In accordance with the agenda, the Evaluation Mission on-site experts met with representatives of Roscosmos Corporate Academy for a feedback session to review the text of the draft evaluation. The Evaluation Mission online experts' questions were answered via email. The Evaluation Mission sought and received answers to a number of open questions that it had in its Evaluation of the Offer.
39. On the basis of that exchange of information, the Evaluation Mission agreed on its observations and remarks of the evaluation parameters and finalized its report.
40. On 13 August 2021 the four experts, who were on-site, signed the final report of the Evaluation Mission: Mr. Fariz ALIYEV of Azerbaijan; Mr. Mu'ammarr HADDADIN of Jordan; Mr. Rodrigo LEONARDI of Brazil; and Mr. WADA Yoshio of Japan,
41. In the period of 16 through 20 August, the experts, who participated virtually, provided their individual observations and remarks via email to UNOOSA.

#### **IV. Evaluation of the offer**

42. The following are the observations and remarks of the offer by Roscosmos Corporate Academy in accordance with the evaluation parameters and the evaluation scale: (i) Offered or Satisfactory (OS); (ii) Probably Satisfactory (PS); or (iii) Not Offered, Unsatisfactory or Unavailable (N):

##### **1. Governmental support**

*Observations:* The initiative to establish a new regional centre for space science and technology education (affiliated to the United Nations) in the Russian Federation was announced by Mr. Dmitry Rogozin, Director General of the State Space Corporation "Roscosmos", at the sixty first session of the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS) in June 2018. At the fifty-eighth session of the Scientific

and Technical Subcommittee of COPUOS, held on 19 – 30 April 2021, the delegation of the Russian Federation made a respective statement reflected in the report of the 58th session of the Scientific and Technical Subcommittee (A/AC.105/1240).

In the course of the Evaluation Mission, Ms. Tatiana Tishchenko, the Acting Deputy Director General for the International Cooperation of the State Space Corporation “Roscosmos” on behalf of the Deputy Director General of the State Space Corporation “Roscosmos” expressed full commitment of the State Space Corporation “Roscosmos” to give all the support necessary to assure success of the Regional Centre, once it is established.

In the course of the Evaluation Mission, Mr. Dmitriy Pospekhov, the Chief of Division for State Scientific Centres Coordination and Tracking, Department of Innovations and Prospective Research, Ministry of Science and Higher Education of the Russian Federation highlighted high potential and readiness of high-ranking universities to contribute to the successful establishment and performance of the Regional Center.

In the course of the Evaluation Mission, Mr. Kirill Porvatov, the Director General of the Roscosmos Corporate Academy expressed full commitment of the Roscosmos Corporate Academy to give the comprehensive support to establish and assure success of the Regional Centre, once it is established.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 1.1. Level or rank of the government representative

*Observations:* The Government of the Russian Federation was represented by the officials from the State Space Corporation “Roscosmos” and the Ministry of Education and Science of the Russian Federation. The Roscosmos Corporate Academy was represented by Mr. Kirill Porvatov, Director General.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 1.2. Contents of the statements and scope of the support offered

*Observations:* Mr. Vasily Gudnov of ROSCOSMOS indicated that the Government of the Russian Federation would provide sustainable financial support to the Centre through the scholarship program for the foreign students (amounting to 300 thousand US dollars annually) which would be managed by Roscosmos Corporate Academy. He also emphasized that all the operational expenses of the Secretariat of the Centre would be covered by the State Space Corporation “Roscosmos”. Financial support from the United Nations would not be required.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 2. Institutional Support

*Observations:* Roscosmos Corporate Academy provided a comprehensive report (see Annex B). The report contains details on the institutional support to be given to the Centre. This was further confirmed in discussions with the management of the universities that have confirmed their willingness to participate in the educational activities of the Centre by signing the Cooperation Agreement with Roscosmos Corporate Academy.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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2.1. Level or rank of the representative of the potential host institutions for the Centre

<i>Observations:</i> The Evaluation Mission was received by numerous representatives of the potential host institutions:	
Peoples' Friendship University of Russia (RUDN University), Moscow: <i>Ms. Larisa EFREMOVA, Vice-Rector for International Affairs, RUDN University</i> <i>Mr. Yury RAZOUMNY, Director of Academy of Engineering, RUDN University</i>	
Bauman Moscow State Technical University (Bauman University), Moscow: <i>Mr. Dmitriy DROBYSHEV, Chief of Department of the International Cooperation in Science and Education, BMSTU</i>	
Samara National Research University (Samara University), Samara <i>Mr. Andrey GAVRILOV, Vice-Rector, Samara University</i> <i>Mr. Anton GULBIS, Head of the International Cooperation Department, Samara University</i>	
Reshetnev Siberian State University of Science and Technology (SibSAU), Krasnoyarsk <i>Mr. Vladimir KURESHOV, First Vice-Rector, SibSAU</i> <i>Mr. Pavel SNETKOV, Director of Institute of Supplementary Education, SibSAU</i>	
Russian State Hydrometeorological University (RSHU), Saint-Petersburg <i>Mr. Valery MIKHEEV, Rector, RSHU</i> <i>Ms. Daria SOKOLOVA, Deputy Director of the Institute of International Education, RSHU</i>	
<i>Evaluation Mark:</i>	Offered or Satisfactory

2.2. Contents of the statements and scope of the support offered

<i>Observations:</i> The management of the Peoples' Friendship University of Russia (RUDN University), Samara National Research University (Samara University), Bauman Moscow State Technical University (Bauman University), Reshetnev Siberian State University of Science and Technology (SibSAU), Russian State Hydrometeorological University (RSHU) indicated that their universities would be committed to provide support to educational activities of the Centre to ensure its success. The partnered universities would provide the necessary working space, facilities and personnel for the educational programs.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

**3. Local resources in support of the Centre**

<i>Observations:</i> The universities mentioned in section 2.2. (partnered universities) assured that all the required local resources (human, infrastructure, educational materials etc.) would be made available in support of the proposed Centre.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

3.1. Scientific, technical and administrative personnel offered for the Centre (potentially available to the Centre in (i) participating institutions and in (ii) national institutions)

<i>Observations:</i> The existing personnel of the partnered universities will be offered as scientific personnel available to the Centre. The academic staff of all partnered universities are highly qualified experts, PhD/Doctorates and Candidates of Science.	
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Technical and administrative personnel for the Centre would be offered by Roscosmos Corporate Academy.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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### 3.2. Infrastructure

<i>Observations:</i> The classrooms, libraries, laboratories as well as other facilities that the Centre will require will be provided by the partnered universities. For the extended information on each university facilities see Annex B, Chapter V.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 3.2.1. Installed facilities (e.g. libraries, equipped laboratories, non-dedicated major equipment, communications networks, interpretation/translation services)

<i>Observations:</i> The Evaluation Mission noted that libraries, equipped laboratories and scientific centres of the partnered universities (e.g. the Space Technology Labs of Bauman University Educational and Experimental Center, Mission Control Center of the RUDN University, etc) would be available for use by the students of the Centre. The details of facilities available at each university are listed in Annex B, Chapter V.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 3.2.2. Campus (distance to the future location of the Centre)

<i>Observations:</i> Most of the dormitories of the Universities are located on nearby area, which is accessible by foot or public transport. The geographic location of the dormitories (student campuses) with their distances from the institutions, as well as details about transportation logistics, are listed in Annex B, Chapter V.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 3.2.3. Physical spaces (total available surface, classrooms, work and study rooms and offices properly furnished)

<i>Observations:</i> All partnered universities presented during the Evaluation Mission are among the largest technical and social science institutions of higher education in the Russian Federation. The Evaluation Mission noted with satisfaction that all partnered universities would be able to provide educational services using modern distance learning technologies and course curricula are adapted to carry online-classes.
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Details on physical spaces available at each university are listed in Annex B, Chapter V.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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#### 3.3. Support equipment (e.g. computers, plotters, printers and other electronic or specialized equipment)

<i>Observations:</i> Common support equipment (computer, printers, audio-visual (AV) equipment, etc.) is available for students, professors, and administrative staff.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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3.4. Software (commercial or in-house developed software packages), e.g. for digital image processing and data analysis

<i>Observations:</i> All the universities presented during the Evaluation Mission provide licensed platforms and software required for implementation of educational programs in space-related fields.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

**4. Housing for participants and staff of the Centre - availability and adequacy; either on-campus, offered for the Centre or commercially available at reasonable rates; transportation**

<i>Observations:</i> Adequate housing for participants and staff is located on Campuses and will be made available to the Centre students at reasonable rates. The identified housing is at a walking distance from universities. There are also hotels located not far from the universities offering rooms at reasonable rates.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

**5. Coordination of the Centre's activities**

<i>Observations:</i> The Governing Board will manage the Centre. The coordination mechanism among the Regional Centre, the Government, the cooperating institutions and the partnered institutions will be reflected in the Terms of Reference for the Centre, as well as in the Terms of Reference for its managing bodies.	
Roscosmos Corporate Academy will perform the functions of the Secretariat of the Centre and manage its overall activities.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

5.1. Coordination of the education programmes (structure proposed by the host country)

<i>Observations:</i> Since the educational programs will be planned, developed and implemented within the proposed Centre, the coordination required to successfully carry out the programs would be provided and assured by the Secretariat of the Centre. The programs of the Centre would be also coordinated with the academic programs of the partnered universities and the United Nations requirements.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

5.2. Coordination among the participating institutions

<i>Observations:</i> Given that the Centre will be composed of a number of institutions of higher education located in different parts of the Russian Federation, it is planned that coordination among the institutions participating in the activities of the Centre would be performed by the Secretariat of the Centre.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

**6. Autonomy of the Centre**

<i>Observations:</i> The New Centre will be organized through integration of autonomous educational institutions of higher education and scientific organizations of the Russian Federation.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

## 6.1. Degree of academic autonomy

<i>Observations:</i> The Centre will have the required academic autonomy under the academic oversight of the partnered universities.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 6.2. Degree of administrative autonomy

<i>Observations:</i> The Centre will have the required administrative autonomy.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**7. Financial contribution**

<i>Observations:</i> The Government of the Russian Federation through the scholarships from the Federal Agency for the Commonwealth of Independent States Affairs, Compatriots Living Abroad, and International Humanitarian Cooperation (Rossotrudnichestvo) will provide financial support to the Centre. The partner universities would provide the necessary working space, facilities and personnel.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**8. Degree to which the proposed structure has been developed**

<i>Observations:</i> The organizational structure of the Centre has been developed following the requirements of relevant United Nations issued guiding documents for the establishment of Regional Centres, and taking into account the model of the existing Centres. The detailed information on the organizational structure is provided in the Annex B, Chapter III.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**9. Legal status of the Centre**

<i>Observations:</i> The Centre is organized through integration of educational institutions of higher education and scientific organizations of the Russian Federation that already have legal personality. The Centre itself would not be a legal entity.
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The Centre is established on the territory of the Russian Federation under the auspices of Roscosmos Corporate Academy, which will be authorized by the Government of the Russian Federation to perform the functions of the Secretariat of the Centre in order to coordinate the activities of all governing bodies and partnered universities.

<i>Evaluation Mark:</i>	Offered or Satisfactory
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**10. Experience of the host country/institution in space science and technology applications**

<i>Observations:</i> The Russian Federation, as a host country, is fully competent in all fields of space science, technology and its applications. All universities nominated to become Campuses for the New Center have space-related academic departments and laboratories with faculty either qualified in space issues or working part-time at the rocket and space enterprises.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**11. Experience in space technology**

<i>Observations:</i> Roscosmos Corporate Academy and the partnered universities have a comprehensive experience in space-related training and education.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**12. Demand for experts and services from a space science and technology education centre in the region**

<i>Observations:</i> There is a growing demand for space science and technology experts and services in the region.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 12.1. Demand for experts in operational programmes of the region

<i>Observations:</i> The increase in operational space-related programmes (satellite communications, space meteorology, remote sensing applications, GNSS applications, space technology development, space law, etc.) in the region has led to a growing demand for relevant experts.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 12.2. Demand for services/consultancy from the Centre

<i>Observations:</i> Based on demand the Centre may provide services/consultancy for the Eurasian region.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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**13. Geographic situation, practical aspects**

<i>Observations:</i> As the structure of the Centre is composed of a number of universities located in different parts of the Russian Federation, the education in the Centre would be geographically easily accessible within the Asia Pacific region as well as Europe. The locations provide all amenities for adequate living/studying conditions.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 13.1. Geographic situation within Asia and Europe

<i>Observations:</i> The partnered universities are located in Asian and European regions of the Russian Federation (Moscow, Krasnoyarsk, St. Petersburg, Samara) and geographically easily accessible within the Asia Pacific region and Europe.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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## 13.2. Infrastructure access links in the region

<i>Observations:</i> Moscow, Krasnoyarsk, St. Petersburg and Samara are well-connected communication and transportation hubs. Details on infrastructure access links at each Campus are listed in Annex B, Chapter V.
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<i>Evaluation Mark:</i>	Offered or Satisfactory
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13.3. Political links, participation in regional academic exchange,  
presence of students from other Asian and European countries

<i>Observations:</i> The Centre has pledged to coordinate its activities with other regional centres. All partnered universities have extensive experience in educating international students from different countries.	
<i>Evaluation Mark:</i>	Offered or Satisfactory

## V. Conclusions

14. The Evaluation Mission was conducted from 10 to 13 August 2021 in line with its terms of reference. The offer to establish the new centre was evaluated on the basis of the visits to some of the facilities that would be made available to establish the proposed new Centre, and on the basis of the discussions held with representatives of the Government and the partner institutions.
15. The Evaluation Mission concluded that the Russian Federation and Roscosmos Corporate Academy are, jointly with the partner universities, able to provide all the support necessary for the Centre's successful establishment and sustained operation. The new centre would be an important contributor to efforts in capacity-building in space science and technology education in Europe and Asia and would complement the efforts of existing Regional Centres for Space Science and Technology Education affiliated to the United Nations.
16. The evaluation mission recommends the acceptance of the offer of the Russian Federation.

## Annex A: Evaluation Mission Agenda (Hybrid Format)

<b>Tuesday, 10 August 2021</b>		
<b>Moscow Time (UTC+3)</b>	<b>Event/Venue</b>	<b>Format</b>
8:30 – 9:00	<i>Transfer to Roscosmos</i>	
9:00 – 9:45	Welcoming speech of representatives of the State Space Agency "Roscosmos", the Academy and UNOOSA and EM-experts	<i>In person/ Virtually</i>
9:45 – 10:30	Kickoff meeting: goal setting, organizational issues. Discussion on the checklist for the evaluation mission.	
10:30 – 10:50	<i>Coffee break</i>	
10:50 – 11:45	Introductory presentation on the concept and organizational structure of the Centre.  Introductory presentation on Roscosmos Academy as the industry educational center and its core areas of activities.  Q&A session.	<i>In person/ Virtually</i>
11:45 – 12:00	<i>Transfer to the Roscosmos Academy</i>	
12:00 – 12:30	Tour of the Roscosmos Academy. Presentation of the National Space Center concept - as the future address of the Center	<i>In person</i>
12:30 – 13:45	<i>Transfer, lunch break</i>	
13:45 – 14:45	<i>Transfer to RUDN University - Engineering Academy, Law Institute (Meeting point - Mission Control Center)</i>	
14:45 – 15:15	Meeting with the rector of RUDN University	
15:15 – 16:30	Presentation of educational programs: - Remote sensing of the Earth and geoinformation systems; - Design of space missions and systems; - International Space Law	<i>In person/ Virtually</i>
16:30 – 17:30	Guided tour of the RUDN University campus	<i>In person</i>
17:30 – 19:30	<i>Transfer to the hotel/dinner</i>	
<b>Wednesday, 11 August 2021</b>		
<b>Moscow Time (UTC+3)</b>	<b>Event/Venue</b>	<b>Format</b>
8:15 – 8:45	<i>Transfer to Bauman Moscow State Technical University, Youth Space Center</i>	
8:45 – 10:30	Meeting at Youth Space Center. Presentation of the Centre educational partner (infrastructure, Mission Control Center, labs, educational programs)	<i>In person/ Virtually</i>
10:30 – 12:30	<i>Transfer to Bauman University Educational and Experimental Center</i>	
12:30 – 13:00	<i>Lunch</i>	

13:00 – 14:30	Excursion to the Space Technology Labs of Bauman University Educational and Experimental Center	<i>In person</i>
14:30 – 19:00	<i>Transfer 1 to the hotel, dinner</i>	
14:30 – 17:05	<i>Transfer 2 to the Sheremetyevo Airport: Flight “Moscow-Samara”</i>	
17:05 – 19:50 (time zone change)	<i>Air travel «Moscow, Sheremetyevo– Samara, Kurumoch»</i>	
<b>Thursday, 12 August 2021 (in MOSCOW)</b>		
<b>Moscow Time (UTC+3)</b>	<b>Event/Venue</b>	<b>Format</b>
8:10 – 8:30	<i>Transfer to ROSCOSMOS</i>	
8:30 – 10:00	Presentation of the Centre educational partner (infrastructure, labs, museums, educational programs) – Samara University	<i>In person/ Virtually</i>
10:00 – 10:30	<i>Coffee-break</i>	
10:30 – 11:30	<i>Transfer to the Space Research Institute of Russian Academy of Sciences</i>	
11:30 – 13:30	The Space Research Institute of the Russian Academy of Sciences tour/ meeting	<i>In person</i>
13:30 – 14:30	<i>Transfer to the hotel, Lunch</i>	
14:30 – 19:00	<i>Individual time, working on the EM-report, dinner</i>	
<b>Thursday, 12 August 2021 (in SAMARA)</b>		
<b>Samara Time (UTC+4)</b>	<b>Event/Venue</b>	<b>Format</b>
9:00 – 9:30	<i>Transfer to Samara University</i>	
9:30 – 11:00	Presentation of the Centre educational partner (infrastructure, labs, museums, educational programs) – Samara University	<i>In person/ Virtually</i>
11:00 – 12:00	Tour of the Samara University	<i>In-person</i>
12:00 – 13:00	<i>Lunch</i>	
13:00 – 14:00	<i>Transfer to Training Center JSC “SRC Progress” (Roscosmos Organization) - ROSCOSMOS organization</i>	
14:00 – 15:00	<i>Presentation of the experience of multilevel training of the Training Center JSC “SRC Progress”, meeting</i>	<i>In-person</i>
15:00 – 17:25	<i>Transfer to Kurumoch Airport: Flight “Samara-Moscow”</i>	
17:25 – 18:25 (time zone change)	<i>Air travel “Samara, Kurumoch– Moscow, Sheremetyevo”</i>	
<b>Friday, 13 August 2021</b>		
<b>Moscow Time (UTC+3)</b>	<b>Event/Venue</b>	<b>Format</b>
8:30 – 9:00	<i>Transfer to GLAVKOSMOS Conference room</i>	
9:00 – 10:15	Video-conference with the Centre educational partner – the Reshetnev Siberian State University of Science and Technology	<i>In person/ Virtually</i>

10:15 – 11:30	Video-conference with the Centre educational partner – Russian State Hydrometeorological University	
11:30 – 11:50	<i>Coffee break</i>	
11:50 – 13:00	Elaboration of issues of the EM-Report, feedback from the EM-Experts, exchange of views on the results of the visit	
13:00 – 14:15	<i>Lunch</i>	
14:15 – 16:15	<i>Transfer to the hotel, free-time</i>	
16:15 – 21:30	<i>Transfer/Gala dinner</i>	

## **Annex B: Report by Roscosmos Corporate Academy on the proposed new Regional Centre for Space Science and Technology Education (affiliated to the United Nations)**

At the fifty-eighth session of the Scientific and Technical Subcommittee<sup>6</sup> of the Committee on the Peaceful Uses of Outer Space (COPUOS), held on 19 – 30 April 2021, the delegation of the Government of the Russian Federation made a statement on establishing a new regional centre for space science and technology education (affiliated to the United Nations) in the Russian Federation (hereafter referred to as the “New Centre”) and made a technical presentation on “Regional Eurasian Space Educational Centre, affiliated to the United Nations”<sup>7</sup>.

At the planning meeting, including on the elaboration of the Terms of Reference for the evaluation mission, held virtually on 14 July 2021, it was agreed that the evaluation mission will be held on-site, with provision for online participation, on 10 -13 August 2021, in Moscow and Samara, Russian Federation, in order to assess the capacity of the institutions that, as a network, would constitute a regional centre for space science and technology education established and hosted under the Roscosmos Corporate Academy of the Russian Federation. The status regarding the establishment of the proposed Centre is hereby reported as follows:

### **I. Governmental Support**

Being a pioneer in space, for more than sixty years Russia has been one of the leading space-faring countries, which can boast such landmark achievements in space as the first man-made satellite, the first animal in space, the first human in space and Earth orbit, the first woman in space and Earth orbit, the first spacewalk, the first space rover, the first space station, the first interplanetary probe and others. Currently Russia implements a great number of space activities including space launches, rocket and space systems development, the International Space Station (ISS) program, programs for Earth science, communication, and scientific research and many others.

As a member State of COPUOS, the Russian Federation has been participating and providing a significant support to the United Nations Office for Outer Space Affairs (UNOOSA) activities including its Programme on Space Applications (PSA), the United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), the International Committee on global navigation satellite systems (ICG), working groups of COPUOS and its Subcommittees, etc.

The Government of the Russian Federation keeps a special focus on capacity-building and space science and technology education for the benefits of the region.

In 2015, for the purpose of promoting the training programme on space technology applications in ASEAN (the Association of Southeast Asian Nations) countries the Federal Space Agency of the Russian Federation (now the State Space Corporation “Roscosmos”) conducted two workshops: “Practical use of GLONASS/GPS satellite navigation technologies” and “Practical use of Remote Sensing technologies”. For several years, from 2012 through 2019, JSC “Russian Space Systems” (Roscosmos organization) organized the International School on satellite navigation. The students of the school got an overview on basic fundamentals of global

<sup>6</sup> A/AC.105/1240, Chapter II, Section A, para. 61

<sup>7</sup> <https://www.unoosa.org/documents/pdf/copuos/stsc/2021/tech-58E.pdf>

navigation satellite systems (GNSS) and Earth Remote Sensing (ERS) and learned how to use the GNSS and ERS data to address special-purpose tasks in various sectors of economy.

The Russian Federation Government pays a high attention to the establishment of the New Centre and its subsequent operation. The officials from the State Space Corporation “Roscosmos”, the Ministry of Foreign Affairs of the Russian Federation, the Ministry of Education and Science of the Russian Federation, the Russian Academy of Sciences, Rossotrudnichestvo shall be the members of the Coordination Committee of the Centre.

## **II. Institutional Support**

New Centre is organized through integration of educational institutions of higher education and scientific organizations of the Russian Federation that have signed the Cooperation Agreement with Roscosmos Corporate Academy.

To date, the following educational institutions have expressed their willingness to participate in the educational activities of the new centre: Peoples' Friendship University of Russia (RUDN University), Samara National Research University (Samara University), Bauman Moscow State Technical University (BMSTU or Bauman University), Moscow Aviation Institute, St. Petersburg State University of Aerospace Instrumentation, Reshetnev Siberian State University of Science and Technology (Reshetnev University), Tomsk State University of Control Systems and Radioelectronics (TUSUR University), Russian State Hydrometeorological University (RSHU), the Southwest State University (SWSU).

All of the above-mentioned universities are among the leading technical institutions of higher education in the Russian Federation, have extensive experience in interacting with international organizations and meet the necessary requirements for a partnered institution of the New Centre (for details see V. Facilities and Logistics of the New Centre).

Partnered institutions have extensive experience in implementing educational programs (bachelor's, master's, specialist, postgraduate) in the core disciplines of the United Nations-affiliated Regional Centres for Space and Technology Education, such as:

- Remote Sensing and Geographic Information Systems (RS&GIS);
- Global Navigation Satellite Systems (GNSS);
- Satellite Communications (SATCOM);
- Satellite Meteorology and Global Climate (SATMET);
- Basic Space and Atmospheric Sciences (BSAS);
- International Space Law (ISL).

New Centre, on the basis of partnered institutions will be able to provide educational services using modern distance learning technologies: course curricula are adapted to carry online-classes using Microsoft Teams, Zoom, LMS Moodle tools, etc.

As specified in the Governmental decree of Russian Federation (№ 2150 as of December 18, 2020 “On Establishing an Education Quota for Foreign Nationals and Stateless Citizens in the Russian Federation”), foreign citizens are provided an opportunity to take part in an Competition for state-funded educational places at Universities in Russian Federation. New Centre will support applicants for the scholarship program and guide them through all stages of the selection process.

International scientific and technical events (conferences, forums, congresses) are held annually on the platforms of institutional partners of the New Centre, and both students and

faculty staff as well as foreign scientists from leading technical universities are involved in their participation. For example, annual IAA/AAS SciTech Forum (hosted by RUDN University in partnership with International Academy of Astronautics and American Astronautical Society) attracts specialists and professors from universities and enterprises of the space industry from all over the world: Massachusetts Institute of Technology (USA), National Institute for Space Research (Brazil), Sapienza University of Rome (Italy), State Space Corporation “Roscosmos” (Russia) and so on.

New Centre’s students will have the opportunity to participate in various university research projects, publish articles in peer-reviewed technical journals on special terms (free of charge or discounted rate), and report their research results at various international scientific venues.

### **III. Establishment of the New Centre**

#### **Organizational Structure**

The organizational structure of the proposed New Centre will follow the requirements of relevant United Nations documentation (A/AC.105/703, A/AC.105/749). Taking into account the model of the existing Centres, the New Centre shall consist of: (a) The Governing Board; (b) The Coordination Committee; (c) Expert Subcommittee, (d) Secretariat; (e) Educational Institutions of Higher Education of the Russian Federation, each with its own Campus in the surrounding area.

The Governing Board shall be the principal policy-making organ of the New Centre. It shall be composed of representatives of authorized foreign space organizations of States that have expressed their intention to participate in the activities of the Center and have signed a Cooperation Agreement with the Eurasian Regional Space Educational Center, affiliated to the United Nations. The Agreement will be open for signature for new Parties. The Governing Board shall meet at least once every year in Moscow or in any other city of the region to be determined by the Governing Board. It may invite other states, organizations, and experts to participate in activities of the New Centre on such terms and conditions as the Governing Board may prescribe.

The Chairperson of the Governing Board shall be elected with a two-thirds majority by the Governing Board for a three-year term. The term may be renewed once for another period of three years. The first Chairperson of the Governing Board shall be nominated by the host country.

The Coordination Committee is a domestic governing body that plays a key role in creating and developing the Centre. The Coordination Committee shall consist of representatives of federal executive authorities and Russian organizations participating in the activities of the Centre - the State Space Corporation “Roscosmos”, the Ministry of Foreign Affairs of the Russian Federation, the Ministry of Education and Science of the Russian Federation, the Russian Academy of Sciences, Rosstrudnichestvo.

An Advisory Committee consisting of representatives of educational institutions of higher education of the Russian Federation participating in the activities of the Center is formed as part of the Coordination Committee.

The Secretariat is a legal entity under the jurisdiction of the Russian Federation, authorized by the Government of the Russian Federation to perform the functions of the Secretariat of the Center. Roscosmos Corporate Academy shall perform the functions of the Secretariat of the Centre.

Educational institutions of higher education of the Russian Federation are involved in the activities of the Center on the basis of cooperation agreements. Educational institutions of higher education of the Russian Federation with which the Center has concluded cooperation agreements, develop and implement educational programs on a budgetary and commercial basis, provide material and technical support, including the campus, in order to implement the educational process.

Given that the New Centre includes a number of institutions of higher education from different locations in the Russian Federation, it is intended that the Centre's Campuses will be located regionally, relative to a particular partnered university or scientific organization. Four such Campuses are presented to Evaluation Mission members: Campus-RUDN, Campus-BMSTU, Campus-Samara, Campus-Reshetnev (see V. Facilities and Logistics of the New Centre).

### **Legal Status**

The New Centre is established on the territory of the Russian Federation on the basis of the Roscosmos Corporate Academy, which is entitled to perform the functions of the Secretariat of the New Centre in order to coordinate the activities of all governing bodies and educational organizations of the New Centre.

The New Centre is organized through integration of educational institutions of higher education and scientific organizations of the Russian Federation that have legal personality and, in particular, have the capacity to contract, to acquire and dispose of movable and immovable property, and to institute legal proceedings.

### **Financial Contribution**

The Government of the Russian Federation through the scholarships from the Rossotrudnichestvo will provide financial support to the New Centre. The educational institutions of higher education and scientific organizations of the Russian Federation that will take part in the New Centre activities will provide the necessary working space, facilities and personnel.

## **III. Education and Training of the New Centre**

To date, the following educational institutions of higher education of the Russian Federation have expressed their willingness to participate in the educational activities of the New Centre: Peoples' Friendship University of Russia, Samara National Research University named after Academician S.P. Korolev, Bauman Moscow State Technical University (National Research University), Moscow Aviation Institute (National Research University), St. Petersburg State University of Aerospace Instrumentation, M.F. Reshetnev Siberian State University of Science and Technologies, Tomsk State University of Control Systems and Radioelectronics.

The above-mentioned institutes are among the premier technical and social science universities in Russia that offer degree and non-degree programs and will provide academic training and technology consulting in the field of space science and technology, space law.

The New Centre will offer 9-month postgraduate courses, Master's programs, short-term courses (professional development, theme-oriented training), as well as other educational activities.

The proposed majors of the New Centre will include Global Navigation Satellite Systems, Satellite Communications, Space Science and Research, Advanced Space Technologies and Experiments in Space, Remote Sensing & the Geographic Information Systems, Satellite Meteorology & Global Climate, and International Space Law.

For the purpose of carrying out high-quality educational programs of the New Centre, the demands of the Commonwealth of Independent States (CIS) countries will be taken into account with high priority in designing the curricula. The New Centre will take advantage of the technical strength of the Russian Federation in space technology applications to promote the ability of research and application of the participants.

Taking into account the current epidemiological situation in the world a special focus will be made on the implementation of eLearning and distance learning education programs.

## V. Facilities and Logistics of the New Centre

### CAMPUS SAMARA University

<i>Contact information</i>	
Name	Samara National Research University (Samara University)
Educational departments in charge	<ol style="list-style-type: none"> <li>1. Institute of Aerospace Science and Technology</li> <li>2. Institute of Informatics, Mathematics and Electronics</li> </ol>
World ranking	#581-590 in QS World University Rankings (2022) #105 in EECA University Rankings (2021)
Address	Moskovskoye Highway, building 34, Samara, Samara Region, Volga Federal District, 443 086, Russian Federation
<i>Local resources in support of the Centre</i>	
Faculty staff	<ul style="list-style-type: none"> <li>- 5 full members and corresponding members of the Russian Academy of Sciences;</li> <li>- Approximately 100 full members and corresponding members of public academies of sciences;</li> <li>- 53 laureates of the Lenin Prize, the State Prize and other prizes;</li> <li>- 75 employees won state awards and 70 employees were given honorary titles of the Russian Federation;</li> <li>- Among 1,455 academic staff, there are 169 Professors, 494 Associate Professors, 266 Doctors of Science and 817 Candidates of Science.</li> </ul>
Infrastructure and installed facilities	Library: <ul style="list-style-type: none"> <li>- A book fund of more than 2.3 million items and electronic resources;</li> <li>- Reading rooms with 580 seats;</li> <li>- Co-working zones with 150-200 seats.</li> </ul> Equipped laboratories and scientific centers: <ul style="list-style-type: none"> <li>- Satellite Data Processing Center;</li> <li>- Nano Satellite Technology Center;</li> <li>- Training Airdrome;</li> </ul>

	<ul style="list-style-type: none"> <li>- Center for the history of aircraft engines named after Nikolay Kuznetsov - the world's largest collection of aircraft gas turbine engines;</li> <li>- Media Center with supercomputer S. Korolev;</li> <li>- CAM-center.</li> </ul> <p>Physical spaces:</p> <ul style="list-style-type: none"> <li>- 64 research laboratories;</li> <li>- Total classrooms and labs area: 164,595 sq meters;</li> <li>- Total number of PCs: 3,519.</li> </ul> <p>Cafeteria:</p> <ul style="list-style-type: none"> <li>- 8 on-campus cafes with more than 1,000 seats;</li> <li>- Average price for a meal – 300 Rubles (3,5 EUR).</li> </ul>
Licensed platforms and software	Mathworks Matlab, Microsoft Visual Studio, Xilinx Vivado, Altium Designer.
<b><i>Housing for participants and staff of the Centre</i></b>	
On-campus	<ul style="list-style-type: none"> <li>- 11 student on-campus dormitories, 1 off campus (4 km) (accommodating more than 3,400 students) – available for international students on request;</li> <li>- Equipped with kitchens;</li> <li>- Average price – 1,000 Rubles (11,5 EUR) per month.</li> </ul>
Urban facilities	<p>Nearest hotel – around 2,000 Rubles (23 EUR) per day;</p> <p>Average price for a rented flat in the area – 16,000 Rubles (184 EUR) per month.</p>
Transportation	<p>The Samara region one of Russia's largest transportation hubs which runs through the shortest route from Central and Western Europe to Siberia, Central Asia and Kazakhstan.</p> <p>The main volume of freight traffic accounts for railway and automobile transport, and a volume of passenger traffic on automobile and municipal electric transport (trams, trolleybuses, underground).</p> <p>Nearest airport available – International Airport Kurumoch.</p>
<b><i>Experience in space science and technology applications</i></b>	
Membership in the international organizations	<ul style="list-style-type: none"> <li>- International Astronautical Federation (IAF);</li> <li>- UNISEC Global;</li> <li>- Association of Sino-Russian Technical Universities;</li> <li>- Global Fluid Power Society;</li> <li>- European Community for Science and Education;</li> <li>- Consortium of Chinese, Russian and Belarusian Universities.</li> </ul>
Research experience	<p>Established in 1942, Samara University has awarded 70000 degrees. Since launching the aerospace engineering programs for students in 1957, the scientists and students of Samara University were involved in design and production development of the country's first domestically-produced R-7 family of rockets, the Vostok, Molniya and Soyuz carrier rockets, a rocket-</p>

	<p>and-space complex for manned flights to the Moon and the Energiya-Buran system, developed programs for the MIR orbital complex and the International Space Station programmes.</p> <p>The first satellites designed and produced in Samara University named “Peon” served to study the density of the upper layers of the atmosphere. In total, in 1989–1992 six satellites of this series were launched.</p>
<b><i>University services and opportunities for foreigners</i></b>	
Preparatory course	<p>Preparatory Faculty (offered both online and offline)</p> <p>Duration – 1 academic year</p> <p>Price – 131,000 Rubles (1,523 EUR) per year</p>
Scholarships	State scholarships provided by Rossotrudnichestvo
Adaptation services	Sputnik Society of Foreign Students annually organizes a variety of extracurricular activities for international students and academic staff, such as Miss International and Mister International contests, Ethnic Festival of Samara University, Lukacheva Street Festival, etc.

### **CAMPUS KRASNOYARSK SibSAU**

<b><i>Contact information</i></b>	
Name	Reshetnev Siberian State University of Science and Technology (Reshetnev University)
Educational departments in charge	Institute of Distance Learning
World ranking	#301-350 in EECA University Rankings (2021)
Address	Avenue of the «Krasnoyarsk worker» newspaper, building 31, Krasnoyarsk, Krasnoyarski Krai, Siberian Federal District, 660 037, Russian Federation
<b><i>Local resources in support of the Centre</i></b>	
Faculty staff	Among 1,001 academic staff, there are 58 Professors, 409 Associate Professors, 84 Doctors of Science and 497 Candidates of Science.
Infrastructure and installed facilities	<p>Library:</p> <ul style="list-style-type: none"> <li>- A book fund of more than 1,65 million items and approximately 150 thousand electronic resources;</li> <li>- Reading rooms with 468 seats;</li> <li>- Co-working zones fully equipped for brainstorming, workshops, round tables, scientific conferences, etc.</li> </ul> <p>Equipped laboratories and scientific centers:</p> <ul style="list-style-type: none"> <li>- The Resource Center for Collective Use "Spacecraft and Systems";</li> <li>- Student Center for Small Spacecraft Mission Control;</li> <li>- Center for Space Monitoring of the Earth;</li> </ul>

	<ul style="list-style-type: none"> <li>- Scientific and Educational Center "Closed Space Systems";</li> <li>- Scientific and Educational Center "Microelectronic Technologies";</li> <li>- Scientific and Educational Center "Rocket and Space Technologies";</li> <li>- Youth Center of Innovative Technologies;</li> <li>- Reshetnev University' Training and demonstration center;</li> <li>- Reshetnev University' Observatory.</li> </ul> <p>Physical spaces:</p> <ul style="list-style-type: none"> <li>- 41 space related research laboratories;</li> <li>- Total classrooms and labs area: 450;</li> <li>- Total number of computer labs: 85.</li> </ul> <p>Cafeteria:</p> <ul style="list-style-type: none"> <li>- 8 on-campus cafe;</li> <li>- Average price for a meal – 150 Rubles (2 EUR).</li> </ul>
Licensed platforms and software	CREDO, ScanEx Image Processor, Microcal Origin; NI LabVIEW Professional 2020, APM Winmachine 17, Sprutcam, Femap with NX Nastran, SolidWorks Campus Edition, STATISTICA Base.
<b><i>Housing for participants and staff of the Centre</i></b>	
On-campus	<ul style="list-style-type: none"> <li>- 7 student on-campus dormitories, 1 off campus (8 km) (accommodating approximately 2,000 students) – available for international students on request;</li> <li>- Equipped with kitchens and laundry rooms;</li> <li>- Average price – 800 Rubles (9 EUR) per month.</li> </ul>
Urban facilities	Nearest hotel – around 2,600 Rubles (30 EUR) per day.
Transportation	<p>The main volume of freight traffic accounts for railway, and a volume of passenger traffic accounts for automobile and municipal electric transport (trams and buses).</p> <p>Nearest airport available – Krasnoyarsk International Airport.</p>
<b><i>Experience in space science and technology applications</i></b>	
Membership in international organizations	<ul style="list-style-type: none"> <li>- International Society for Engineering Pedagogy;</li> <li>- Association for Engineering Education of Russia;</li> <li>- European Network for Accreditation of Engineering Education.</li> </ul>
Research experience	Reshetnev University conducts a wide range of scientific, fundamental and applied research. The main areas of R&D include the following: modeling and design of rocket and space systems and spacecraft; space technologies and telecommunications; information and control systems; space monitoring; control and automation in technical systems; system analysis and methods of operations research; physics and technologies of nanostructures.

	With the active participation of professors and students of Reshetnev University two small class spacecraft "Jubilee" and "MiR" were designed and launched into their orbits.
<b><i>University services and opportunities for foreigners</i></b>	
Preparatory course	Preparatory Faculty Duration – 1 academic year Price (group classes) – 58,000 Rubles (670 EUR) per year Price (one-on-one classes) – 120,000 Rubles (1,380 EUR) per year
Scholarships	State scholarships provided by Rossotrudnichestvo
Adaptation services	Reshetnev University has a Volunteer Center and an International Student Club. The main purpose of the International Student Club is the adaptation of first-year students into Reshetnev University' environment. The club works closely with the "House of Friendship of Peoples of the Krasnoyarsk region" in the format of events and exchange of best practices.

### **CAMPUS MOSCOW BMSTU**

<b><i>Contact information</i></b>	
Name	Bauman Moscow State Technical University (Bauman University)
Educational departments in charge	Department of International Scientific and Educational Cooperation
World ranking	#281 in QS World University Rankings (2022) #34 in EECA University Rankings (2021)
Address	2-nd Baumanskaya street, building 5, Moscow, Central Federal District, 105 005, Russian Federation
<b><i>Local resources in support of the Centre</i></b>	
Faculty staff	Among 248 academic staff, there are 30 Professors, 59 Associate Professors, 53 Doctors of Science and 134 Candidates of Science.
Infrastructure and installed facilities	Library: - Extensive book fund including full-text documents, textbooks, methodical publications and periodicals, as well as a catalog of rare books and fiction available "in paper" and digitally; - 7 reading rooms with co-working zones.  Equipped laboratories and scientific centers: - Mission Control Center; - BMSTU Youth Space Center; - Crisis Management Center; - Scientific and Educational Center "Composites of Russia."  Physical spaces:

	<ul style="list-style-type: none"> <li>- 612 research laboratories;</li> <li>- Total number of classrooms and labs: 1,356;</li> <li>- Total number of PCs: 3,878.</li> </ul> <p>Cafeteria:</p> <ul style="list-style-type: none"> <li>- Three-story canteen with more than 1,000 seats, numerous cafeterias, food courts, and vending machines.</li> <li>- Average price for a meal – 400 Rubles (4,6 EUR).</li> </ul>
Licensed platforms and software	SolidWorks, Patran, Nastran, Mathcad, Adams, Orbitron, Mathlab
<b><i>Housing for participants and staff of the Centre</i></b>	
On-campus	<ul style="list-style-type: none"> <li>- 3 student on-campus, 7 off campus (10, 20 and 40 km) dormitories accommodating more than 5,000 students – available for international students on request;</li> <li>- Equipped with kitchens;</li> <li>- Average price range – 3,500 to 4,500 Rubles (40 to 52 EUR) per month.</li> </ul>
Urban facilities	Nearest hotel – around 2,000 Rubles (23 EUR) per day
Transportation	<p>The Moscow region is the most important transport and logistics center of Russia with a developed air, motor and rail transport infrastructure.</p> <p>Moscow has a comprehensive system of public transit including the famous Moscow Metro, an extensive network of surface transit (buses, trolleybuses and trams) and private taxi. A bike-share system is available from mid-spring to mid-autumn.</p> <p>The Moscow aviation hub, the biggest in the country, consists of five international airports: Sheremetyevo, Domodedovo, Vnukovo, Ramenskoye, and the Ostafyevo business airport.</p>
<b><i>Experience in space science and technology applications</i></b>	
Membership in international organizations	<ul style="list-style-type: none"> <li>- International Astronautical Federation;</li> <li>- University Alliance of the Silk Road;</li> <li>- Technical Universities Association</li> <li>- Top International Managers in Engineering;</li> <li>- Association of Sino-Russian Technical Universities.</li> </ul>
Research experience	<p>R&amp;D "Analysis of removing large space debris from near-Earth orbits methods' technical feasibility and the deorbiting spacecraft's design shape definition" (2017-2018).</p> <p>R&amp;D "Concept and design scheme development for small active spacecraft, forming a constellation to solve problems of joint observation and distributed technological experiments" (2017-2018).</p> <p>Project "Parus - MSTU" – space experiment from Russian segment of ISS (with RSC Energia).</p>

	Creation of small spacecrafts "Yarilo" as part of the "Universal" program (launched on September 28, 2020). International Youth Scientific School "Space Exploration: Theory and Practice" (held since 1995 up to now).
<b><i>University services and opportunities for foreigners</i></b>	
Preparatory course	Preparatory Faculty Duration – 1 academic year Price – 215,000 Rubles (2,471 EUR) per year
Scholarships	State scholarships provided by Rossotrudnichestvo
Adaptation services	Bauman University has a student council and a cell of the BEST (Board of European Students of Technology) Association of European Technical Universities.

**CAMPUS MOSCOW RUDN**

<b><i>Contact information</i></b>	
Name	Peoples' Friendship University of Russia (RUDN University)
Educational departments in charge	1. Academy of Engineering; 2. Law Institute.
World ranking	#317 in QS World University Rankings (2022) #43 in EECA University Rankings (2021)
Address	1. Ordzonikidze street, building 3, Moscow, Central Federal District, 115 419, Russian Federation 2. Miklukho-Maklaya, building 6, Moscow, Central Federal District, 117 198, Russian Federation
<b><i>Local resources in support of the Centre</i></b>	
Faculty staff	Among academic staff (with space related competencies), there are 10 Doctors of Science and 15 Candidates of Science.
Infrastructure and installed facilities	Library: - A book fund of more than 1.9 million items and electronic resources; - Annual subscription for 300 electronic and printed publications; - 6 electronic library systems with remote access via the Internet; - Multifunctional information retrieval system based on the "Single Window"; - Reading rooms and co-working zones. Equipped laboratories and scientific centers: - Mission Control Center (including ground station for satellite data reception and processing facilities); - Laboratory of Robotic Systems and Artificial Intelligence;

	<ul style="list-style-type: none"> <li>- Laboratory of Earth Remote Sensing and Geoinformation Technology;</li> <li>- Laboratory of Aircraft Traffic Control.</li> </ul> <p>Physical spaces:</p> <ul style="list-style-type: none"> <li>- 4 space related research laboratories;</li> <li>- Total number of computer labs (up to 20 workstations each):</li> </ul> <p>Cafeteria:</p> <ul style="list-style-type: none"> <li>- 10+ on-campus canteens and cafes with more than 1,000 seats;</li> <li>- Average price range for a meal – 300 to 700 Rubles (3,5 to 8 EUR).</li> </ul>
Licensed platforms and software	ScanMagic, ScanEx Image Processor, ScanEx Web GeoMixer, ArcGIS, SNAP Desktop, QGIS Desktop 3.x, Google Earth Engine, Sentinel Hub EO Browser.
<b><i>Housing for participants and staff of the Centre</i></b>	
On-campus	<ul style="list-style-type: none"> <li>- 14 student on-campus dormitories (accommodating more than 8,000 students) – available for international students on request;</li> <li>- Equipped with kitchens, laundry, ironing rooms and luggage storage;</li> <li>- Average price range (depends on the dormitory type and comfort type) – 900 to 12,500 Rubles (10,4 to 143,6 EUR) per month.</li> </ul>
Urban facilities	<p>Nearest hotel – around 4,500 Rubles (52 EUR) per day;</p> <p>Average price for a rented flat in the area – 30,000 Rubles (345 EUR) per month.</p>
Transportation	<p>The Moscow region is the most important transport and logistics center of Russia with a developed air, motor and rail transport infrastructure.</p> <p>Moscow has a comprehensive system of public transit including the famous Moscow Metro, an extensive network of surface transit (buses, trolleybuses and trams) and private taxi. A bike-share system is available from mid-spring to mid-autumn.</p> <p>The Moscow aviation hub, the biggest in the country, consists of five international airports: Sheremetyevo, Domodedovo, Vnukovo, Ramenskoye, and the Ostafyevo business airport.</p>
<b><i>Experience in space science and technology applications</i></b>	
Membership in international organizations	<ul style="list-style-type: none"> <li>- American Institute of Aeronautics and Astronautics;</li> <li>- International Academy of Astronautics;</li> <li>- Moon Village Association;</li> <li>- International Institute of Space Law;</li> <li>- International Astronautical Federation;</li> <li>- International Association of Universities;</li> <li>- European University Association;</li> <li>- European Society for Engineering Education.</li> </ul>

	RUDN University participates in programs and forums of the UN, UNESCO, and EU Council. The university has a Comparative Politics Department with the status of a UNESCO department.
Research experience	Long-term research experience in the design of orbital structures of satellite systems, spacecraft flight control, interpretation of Earth remote sensing data, development of geographic information systems in the interests of various sectors of the economy, international space law.
<b><i>University services and opportunities for foreigners</i></b>	
Preparatory course	Preparatory Faculty (online and offline) offers 18 modules with 1,082 hours in total as intensive program for 6 months, as standard program for 9 months, or long-term program for up to two years of study. Costs range from 290 to 4,500 EUR (the cost varies from the number of hours, from group or individual training, at the university or at the place of residence of the customer).  Students who have successfully completed their studies in the programs in full can receive a discount on contract training at RUDN University for undergraduate and graduate programs.
Scholarships	<ul style="list-style-type: none"> <li>- State scholarships provided by Rossotrudnichestvo;</li> <li>- «RUDN brilliant students»;</li> <li>- «BE MASTER!»;</li> <li>- «PROJECT YOURSELF».</li> </ul>
Adaptation services	Foreign Students Recruitment and Support Department (including Office for Asian countries, Office for European & American countries, Office for Middle East & North African countries, Office for African countries and Office for CIS and Baltics countries).

**CAMPUS SPb RSHU**

<b><i>Contact information</i></b>	
Name	Russian State Hydrometeorological University (RSHU)
Educational departments in charge	Department of Science, Technology and Innovation Satellite Oceanology Sector Department of Meteorology Institute of Information Systems and Geotechnology
World ranking	#301-350 in EECA University Rankings (2021)
Address	Malookhtinsky Avenue, building 98, St. Peterburg, Northwestern Federal District, 195 196, Russian Federation
<b><i>Local resources in support of the Centre</i></b>	
Faculty staff	Among academic staff (with space related competencies), there are 9 Doctors of Science and 12 Professors.

Infrastructure and installed facilities	<p>Library:</p> <ul style="list-style-type: none"> <li>- A book fund of approximately 400,000 (physical) items and multiple electronic resources;</li> <li>- Total floor space 932,6 sq meters, reading rooms included.</li> </ul> <p>Equipped laboratories and scientific centers:</p> <ul style="list-style-type: none"> <li>- Satellite Oceanography Laboratory;</li> <li>- Arctic Laboratory;</li> <li>- Laboratory of Middle and Upper Atmosphere Modeling;</li> <li>- High-performance computing cluster (data analytics supercomputer).</li> </ul> <p>Physical spaces:</p> <ul style="list-style-type: none"> <li>- Multiple classrooms and facilities equipped with stationary and portable multimedia projectors;</li> <li>- 7 computer labs (more than 70 workstations).</li> </ul> <p>Cafeteria:</p> <ul style="list-style-type: none"> <li>- Numerous canteens, cafeterias and vending machines;</li> <li>- Average price for a meal –180 Rubles (2 EUR).</li> </ul>
Licensed platforms and software	Polycom, Zoom.
<b><i>Housing for participants and staff of the Centre</i></b>	
On-campus	<ul style="list-style-type: none"> <li>- 5 student dormitories (0.4, 5, 8 and 10 km) accommodating more than 2,200 students. Availability for international students depends on the occupancy of the dormitories.</li> <li>- Equipped with kitchens and laundry;</li> <li>- Average price range (depends on the dormitory type and comfort type) – 825 to 4,140 Rubles (9,5 to 47,6 EUR) per month.</li> </ul>
Urban facilities	<p>Nearest hotel – around 3,000 Rubles (34,5 EUR) per day;</p> <p>Average price for a rented flat in the area – 25,000 Rubles (287,3 EUR) per month.</p>
Transportation	<p>Public transport system in St. Petersburg is incredibly efficient. The quickest way to travel around the city is undoubtedly by metro, but above-ground transport includes a vast system of trams, buses, communal and personal taxis.</p> <p>Nearest airport available – International Airport Pulkovo.</p>
<b><i>Experience in space science and technology applications</i></b>	
Membership in international organizations	<p>RSHU is the Regional Meteorological Training Center of the World Meteorological Organization. RSHU is also is an executing member of the Business Index North.</p> <ul style="list-style-type: none"> <li>- University Corporation for Atmospheric Research;</li> <li>- European Geophysical Union;</li> <li>- Global Earth Science Community.</li> </ul>

Research experience	RSHU has considerable research and educational experience in scientific and project activities related to Earth remote sensing and solving a wide range of problems in the field of hydrometeorology using satellite data. Over the past 5 years more than 15 projects were completed for the total sum of over 2,29M EUR.  The RSHU is licensed for activities in the field of hydrometeorology and related fields.
<i>University services and opportunities for foreigners</i>	
Preparatory course	Preparatory Faculty  Duration – 1 academic year  Price (online) – 130,000 Rubles (1,495 EUR) per year  Price (in person) – 172,000 Rubles (1,977 EUR) per year
Scholarships	- State scholarships provided by Rossotrudnichestvo; - State scholarships provided by Roshydromet.
Adaptation services	Council of Students of RSHU, Student Scientific Societies of RSHU, Environmental Volunteer Center of RSHU “Green Century”.

## VI. Advantages and Features

The unique feature of the New Center is that it is created on the basis of not one but a network of prominent universities located in different Russian cities. Some of them are in European part of Russia, some – in Asian, but all universities offer programs on space science and technology and are well-known in Russia and beyond. As a result, the Centre will take into account the educational needs of both European and Asian regions. This feature also makes it possible for the participants from different countries all over the world to choose the convenient place or city for studies.

All educational institutions of higher education of the Russian Federation engaged in the activities of the New Centre have a good reputation and capabilities of international education, as well as a large number of excellent lecturers and administrative staff, which will be of great value to the New Centre.

If the establishment of the prospective Centre could be approved, it would become the seventh Regional Centre for Space Science and Technology (affiliated to the United Nations). We will learn from the experience from the other Centres and make new contribution to the peaceful uses and exploration of outer space for all mankind.

## **Annex C: Terms of Reference of the Evaluation Mission**

### **A. General Remarks**

**Mission objective:** The purpose of the evaluation mission is to provide an accurate and informative report of whether the government and host institutions, as a network, visited will provide the support necessary for the Centre's successful establishment and sustained operation.

**Dates of the mission:** 10 – 13 August 2021

### **B. Members of the Evaluation Mission**

The following member States of the Committee on the Peaceful Uses of Outer Space (COPUOS) have nominated experts to take part in the mission to evaluate the institutions that, as a network, would constitute a regional centre established and hosted under the Roscosmos Corporate Academy in response to note verbale OOSA/2021/46/Corr., CU 2021/243 issued by the Office for Outer Space Affairs on 21 June 2021: Algeria, Argentina, Armenia, Azerbaijan, Belarus, Brazil, Burkina Faso, China, Colombia, Dominican Republic, Ecuador, Ethiopia, Ghana, India, Indonesia, Japan, Jordan, Malaysia, Morocco, Paraguay, Philippines, Republic of Korea, Saudi Arabia, Senegal, Slovakia, Syrian Arab Republic, Turkey.

All costs associated with the experts' participation in the evaluation mission shall be borne by the respective governments.

The evaluation mission will be facilitated by the Office for Outer Space Affairs.

### **C. Evaluation Parameters**

This section presents the mission's evaluation of the current or expected condition for each of the parameters considered. The level to which the offer would meet with the perceived needs of the Centre is given as one of three categories: (i) Offered or Satisfactory (OS); (ii) Probably Satisfactory (PS); or (iii) Not Offered, Unsatisfactory or Unavailable (N) for each of the parameters and criteria identified below.

The evaluation scale is described in more detail as follows:

**Offered or Satisfactory (OS):** This means that the mission members are confident that the facilities, manpower or other needs of the Centre will be fulfilled by the proposed offer, even though these may not be currently available. Where appropriate it means that statements of support or in-country conditions and infrastructure are considered satisfactory.

**Probably Satisfactory (PS):** This means that the mission members are reasonably sure that the Centre's perceived needs will be satisfied by the offers or statements, but that existing facilities may need upgrading, that the proposal has not completely addressed all of the Centre's needs, or that formal approval of a particular part of the offer is expected but has not yet been given.

**Not Offered, Unsatisfactory or Unavailable (N):** This means that (i) the mission members believed that what was offered would not satisfy the needs of the Centre and that there was very little chance that a satisfactory upgrade could take place; (ii) the statements of offer did

not have sufficient formal approval and had little likelihood of gaining that approval in the immediate future; (iii) no offer was made regarding particular facilities or requirements; or (iv) such facilities or requirements were not available and had very little chance of coming to fruition.

The evaluation parameters are as follows:

1. Governmental Support
  - 1.1 Level or rank of the government representative
  - 1.2 Contents of the statements and scope of the support offered
2. Institutional Support
  - 2.1 Level or rank of the representative of the potential host institutions for the Centre
  - 2.2 Contents of the statements and scope of the support offered
3. Local resources in support of the Centre
  - 3.1 Scientific, technical and administrative personnel offered for the Centre (potentially available to the Centre in (i) participating institutions and (ii) in national institutions)
  - 3.2 Infrastructure
    - 3.2.1 Installed facilities (e.g. libraries, equipped laboratories, non-dedicated major equipment, communications networks, interpretation/translation services, e-learning platforms/distance learning)
    - 3.2.2 Campus (distance to the future location of the Centre)
    - 3.2.3 Physical spaces (total available surface, classrooms, work and study rooms and offices properly furnished)
  - 3.3 Support equipment (e.g. computers, plotters, printers and other electronic or specialized equipment)
  - 3.4 Software (commercial or in-house developed software packages), e.g. for digital image processing and data analysis.
4. Housing for participants and staff of the Centre
  - 4.1 Availability and adequacy; either on-campus, offered for the Centre or commercially available at reasonable rates; transportation.
5. Coordination of the Centre's activities
  - 5.1 Coordination of the education programmes (structure proposed by the host country)
  - 5.2 Coordination among the participating institutions
6. Autonomy of the Centre
  - 6.1 Degree of academic autonomy
  - 6.2 Degree of administrative autonomy
7. Financial contribution
8. Degree to which the proposed structure has been developed
9. Legal status of the Centre
10. Experience of the host country/institutions in space science and technology applications
11. Experience in space technology

12. Demand for experts and services from a space science and technology education centre in the region

12.1 Demand for experts in operational programmes of the region

12.2 Demand for services/consultancy from the Centre

13. Geographic situation, practical aspects

13.1 Geographic situation within Asia and Europe

13.2 Infrastructure access links in the region

13.3 Political links, participation in regional academic exchange, presence of students from other countries

Additional background information on the evaluation parameters is provided in Annex V (a) of document A/AC.105/534 which contains the original proposal for the terms of reference for evaluation missions for the selection of the host institution(s) for the Regional Centres.

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