



**CONCORSO DI DOTTORATO DI RICERCA NAZIONALE
IN "SPACE SCIENCE AND TECHNOLOGY" 39° CICLO
NATIONAL DOCTORAL PROGRAMME IN
"SPACE SCIENCE AND TECHNOLOGY" 39th CYCLE**

**RISULTATI CONCORSO
CALL RESULTS**

In base a quanto stabilito nell'art. 5 del bando, i posti sono assegnati ai candidati e alle candidate idonei/e in base a:

- posizione in graduatoria;
- per le borse a tematica vincolata, secondo l'ordine della graduatoria tenendo conto dell'idoneità specifica.

Qualora il candidato o la candidata risulti vincitore o vincitrice nelle graduatorie di due curricula sarà tenuto/a ad accettare il posto relativo alla borsa a tematica vincolata sul curriculum indicato come prioritario nella domanda online e sarà depennato/a dalla graduatoria dell'altro curriculum.

Qualora il candidato o la candidata risulti vincitore o vincitrice per la posizione relativa a una borsa a tematica vincolata sul curriculum indicato come secondario e accetti il posto, non sarà tenuto/a in considerazione nell'eventuale scorrimento nella graduatoria relativa al curriculum indicato come prioritario in quanto già iscritto/a nell'altra graduatoria.

In caso di idoneità su due graduatorie, al candidato o alla candidata potrà essere offerto, qualora disponibile a seguito dello scorrimento delle graduatorie, un posto con borsa a tematica vincolata su uno qualsiasi dei due curricula, indipendentemente dalle priorità espresse. Il candidato o la candidata sarà tenuto/a ad accettare la posizione e sarà depennato/a dalla graduatoria dell'altro curriculum.

In caso di pari merito si applica quanto specificato all'art. 6.

La mancata attribuzione delle borse comporta la riduzione delle posizioni previste a bando.

According to Art. 5 of the call, the available positions are assigned to short-listed applicants according to:

- *the position in the OVERALL ranking list;*
- *the applicant's prioritized eligibility for a given specific reserved scholarship still available following the order of the ranking list.*

If the candidate appears in the ranking lists of two curricula, he/she will be required to accept the position related to the scholarship theme belonging to the curriculum indicated as priority in the online application and will be removed from the ranking list of the other curriculum.

If the candidate appears in the ranking lists of the curriculum indicated as secondary and accepts the scholarship, he/she will not be considered in the event the ranking list is shifted during a subsequent phase of the scholarship matching. In the event the candidate did not appear in a ranking list and in case of subsequent rankings shift, the candidate may propose a scholarship theme on any of the two curricula regardless of the preferred curriculum indicated in the online application.

In case of equal score, see art. 6.

Non-allocated scholarships on reserved topics will result in the reduction of the number of positions available.

Termine per le iscrizioni:

Posti con borsa: **14 settembre 2023**

Posti senza borsa: **20 settembre 2023**

Deadline for enrolment:

Position with scholarship: **September 14th 2023**

Position without scholarship: **September 20 th 2023**



**Curriculum 1 - Osservazione dell'Universo / Observation of the universe
(10 posti coperti da borsa a tematica vincolata / 10 positions covered by reserved scholarships)**

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
644891	47	39	86	1D 1C 1B	Ammesso – borsa 1D Admitted – Scholarship 1D	*
642575	45	39,5	84,5	1C 1D 1G	Ammesso – borsa 1C Admitted – Scholarship 1C	
645802	48	36	84	1G 1J 1I	Ammesso – borsa 1G Admitted – Scholarship 1G	*
639946	50	33	83	1H 1F 1D	Ammesso – borsa 1H Admitted – Scholarship 1H	
644886	43	39	82	1B 1H 1F	Ammesso – borsa 1B Admitted – Scholarship 1B	
638887	44	37	81	1F 1H 1G	Ammesso – borsa 1F Admitted – Scholarship 1F	*
638490	40	39,5	79,5	1E 1F 1C	Ammesso – borsa 1E Admitted – Scholarship 1E	*
644652	40	39	79	1I	Ammesso – borsa 1I Admitted – Scholarship 1I	
644101	40	36,5	76,5	1A	Ammesso – borsa 1A Admitted – Scholarship 1A	*
645725	48	25,9	73,9	1J	Ammesso – borsa 1J Admitted – Scholarship 1J	*
645736	40	38,5	78,5	1I	Idoneo Eligible, not admitted	*
641825	47	31	78	1D 1I (1E non idoneo; 1E not eligible)	Idoneo Eligible, not admitted	
644437	49	28,5	77,5	1D	Idoneo Eligible, not admitted	*
642357	43	34	77	1D 1C (1F non idoneo; 1F not eligible)	Idoneo Eligible, not admitted	*
643158	45	31	76	1D 1B 1F	Idoneo Eligible, not admitted	
645654	44	31,5	75,5	1F 1C 1G	Idoneo Eligible, not admitted	*
642296	44	31	75	1F 1G 1B	Idoneo Eligible, not admitted	*
642276	39	35,5	74,5	1E	Idoneo Eligible, not admitted	*
644995	40	34	74	1C 1E 1F	Idoneo Eligible, not admitted	*
644445	40	33,5	73,5	1E 1J 1I	Idoneo Eligible, not admitted	
643794	36	37	73	1E 1B 1A	Idoneo Eligible, not admitted	*
644436	40	32,5	72,5	1F	Idoneo Eligible, not admitted	
643628	40	32	72	1F 1B 1D	Idoneo Eligible, not admitted	
645797	46	25,5	71,5	1B 1D 1F	Idoneo Eligible, not admitted	
642126	42	28,5	70,5	1D 1G 1F	Idoneo Eligible, not admitted	*
642432	44	26	70	1F 1G 1B	Idoneo Eligible, not admitted	
645497	38	31,5	69,5	1H	Idoneo Eligible, not admitted	
645592	40	29	69	1F	Idoneo Eligible, not admitted	
643050	37	31,5	68,5	1D 1B 1F	Idoneo Eligible, not admitted	
644575	37	31,1	68,1	1D 1A 1C	Idoneo Eligible, not admitted	



645413	41	27	68	1B 1D 1H	Idoneo Eligible, not admitted	
643444	40	27,5	67,5	1C 1E 1G	Idoneo Eligible, not admitted	
641909	36	31,3	67,3	1C 1F 1H	Idoneo Eligible, not admitted	
645041	42	25	67	1C 1D 1I	Idoneo Eligible, not admitted	
643490	40	25	65	1F 1G 1C	Idoneo Eligible, not admitted	
642801	39	25	64	1C 1B 1F	Idoneo Eligible, not admitted	
641911	36	25	61	1E 1F 1D	Idoneo Eligible, not admitted	
644505	36	35	71	1F 1B 1G	Escluso dalla graduatoria per ammissione su un altro curriculum/ Excluded from the ranking due to the admission on another Curriculum	

**Curriculum 2 – Terra e sistema Terra-Sole / Earth and the Sun-Earth system
(7 posti coperti da borsa a tematica vincolata / 7 positions covered by reserved scholarships)**

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ' BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
637348	47,1	40	87,1	2F 2E 2C	Ammesso – borsa 2F Admitted – Scholarship 2F	*
645026	45,5	38	83,5	2E 2D 2F	Ammesso – borsa 2E Admitted – Scholarship 2E	
644762	46,4	35	81,4	2C	Ammesso – borsa 2C Admitted – Scholarship 2C	
644515	45	33	78	2C 2G (2D non idoneo; 2D not eligible)	Ammesso – borsa 2G Admitted – Scholarship 2G	
644505	35,5	38	73,5	2E 2D 2F	Ammesso – borsa 2D Admitted – Scholarship 2D	
644600	35,1	37	72,1	2A (2E non idoneo; 2E not eligible)	Ammesso – borsa 2A Admitted – Scholarship 2A	
645251	41,2	30	71,2	2B	Ammesso – borsa 2B Admitted – Scholarship 2B	
645027	36,4	34	70,4	2F 2G 2C 2A	Idoneo Eligible, not admitted	
641360	39,3	30	69,3	2C 2D (2G non idoneo; 2G not eligible)	Escluso dalla graduatoria per ammissione su un altro curriculum/ Excluded from the ranking due to the admission on another Curriculum	

**Curriculum 3 – Scienze planetarie / Planetary Sciences
(11 posti coperti da borsa a tematica vincolata / 11 positions covered by reserved scholarships)**

Risultando non assegnate le borse di studio a tematica vincolata 3B - *Automatic analysis for planetary sub-surface radar sounder data (project ASI JUICE-RIME-E – CUP F83C23000070005)* e 3E - *Subsurface Radar Sounder on the EnVision mission for the analysis of the Venus subsurface - F63C22000650005 (UNITN)* i posti totali disponibili sono diminuiti di n. 2 unità diventando pertanto 9 posti coperti da borsa a tematica vincolata./ As the 3B - *Automatic analysis for planetary sub-surface radar sounder data (project ASI JUICE-RIME-E – CUP F83C23000070005)* (FBK) and 3E - *Subsurface Radar Sounder on the EnVision mission for the analysis of the Venus subsurface - F63C22000650005 (UNITN)* scholarships were not awarded, the total number of positions available decreased by 2, thus becoming 9 positions covered by reserved scholarships.

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ' BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
----	-----------------------------------	-----------------------------	-----------------------------------	--	-----------------	--------------------------------



641574	51	39	90	3J 3K 3I	Ammesso – borsa 3J Admitted – Scholarship 3J	
641968	50	38	88	3G 3A 3H	Ammesso – borsa 3G Admitted – Scholarship 3G	
644015	48	39	87	3K 3I 3J	Ammesso – borsa 3K Admitted – Scholarship 3K	
640955	49	36	85	3D 3H 3C	Ammesso – borsa 3D Admitted – Scholarship 3D	
642936	49	35	84	3F 3C (3E non idoneo; 3E not eligible)	Ammesso – borsa 3F Admitted – Scholarship 3F	
644901	42	40	82	3C	Ammesso – borsa 3C Admitted – Scholarship 3C	*
645024	39	39	78	3H	Ammesso – borsa 3H Admitted – Scholarship 3H	
645502	37	40	77	3A	Ammesso – borsa 3A Admitted – Scholarship 3A	
644544	46	27	73	3I	Ammesso – borsa 3I Admitted – Scholarship 3I	
643564	47	39	86	3G	Idoneo Eligible, not admitted	*
644840	45	31	76	3A 3J (3I non idoneo; 3I not eligible)	Idoneo Eligible, not admitted	
638687	44	31	75	3H 3J (3D non idoneo; 3D not eligible)	Idoneo Eligible, not admitted	
641885	46	28	74	3A (3I, 3E non idoneo; 3I, 3E not eligible)	Idoneo Eligible, not admitted	
643798	39	33,5	72,5	3F	Idoneo Eligible, not admitted	
638034	47	25	72	3J (3H, 3K non idoneo; 3H, 3K not eligible)	Idoneo Eligible, not admitted	
641577	39	32	71	3G	Idoneo Eligible, not admitted	
643364	45	25	70	3H 3G 3J	Idoneo Eligible, not admitted	
637896	37	30,5	67,5	3A (3B, 3E non idoneo; 3B, 3E not eligible)	Idoneo Eligible, not admitted	
642146	42	25	67	3K	Idoneo Eligible, not admitted	
644502	36	30	66	3G 3H (3A non idoneo; 3A not eligible)	Idoneo Eligible, not admitted	
644600	35	33	68	3A	Escluso dalla graduatoria per ammissione su un altro curriculum/ Excluded from the ranking due to the admission on another Curriculum	
644504	41	24	65		Non idoneo Not eligible	
645837	36	24	60		Non idoneo Not eligible	

Curriculum 4 - Astrobiologia, Scienze della Vita e Medicina Spaziale / Astrobiology, Life Sciences and Space Medicine

(5 posti coperti da borsa a tematica vincolata / 5 positions covered by reserved scholarships)

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
643348	57	40	97	4B	Ammesso – borsa 4B Admitted – Scholarship 4B	
643063	57	39,8	96,8	4C 4B 4E	Ammesso – borsa 4C Admitted – Scholarship 4C	
645245	52	38,4	90,4	4E	Ammesso – borsa 4E Admitted – Scholarship 4E	



638221	50	38,4	88,4	4D	Ammesso – borsa 4D Admitted – Scholarship 4D	*
645360	49	36,6	85,6	4A 4B 4E	Ammesso – borsa 4A Admitted – Scholarship 4A	
644595	50	36,6	86,6	4C 4B 4E	Idoneo Eligible, not admitted	
642290	43	36,6	79,6	4E 4B	Idoneo Eligible, not admitted	
644608	42	31,6	73,6	4D	Idoneo Eligible, not admitted	
642146	46	26,6	72,6	4D 4A	Idoneo Eligible, not admitted	
643293	43	28,3	71,3	4E	Idoneo Eligible, not admitted	*
637720	37	20	57	Non idoneo Not eligible		

**Curriculum 5 - Sensoristica e strumentazione spaziale / Space sensing and instrumentation
(6 posti coperti da borsa a tematica vincolata / 6 positions covered by reserved scholarships)**

Risultando non assegnate le borse di studio a tematica vincolata 5C - *Integrated Photonics for space* e 5F - *Development of reconfigurable and intelligent RF active components and systems for space applications - E66E23000200008* i posti totali disponibili sono diminuiti di n. 2 unità diventando pertanto 4 posti coperti da borsa a tematica vincolata. / As the 5C - *Integrated Photonics for space* and 5F - *Development of reconfigurable and intelligent RF active components and systems for space applications - E66E23000200008* scholarships were not awarded, the total number of positions available decreased by 2, thus becoming 4 positions covered by reserved scholarships.

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
637433	58,3	37,7	96	5B 5E 5C	Ammesso – borsa 5B Admitted – Scholarship 5B	
645844	56,6	38,7	95,3	5D 5C 5E	Ammesso – borsa 5D Admitted – Scholarship 5D	*
643135	53,5	37,5	91	5A	Ammesso – borsa 5A Admitted – Scholarship 5A	*
644975	47	37,3	84,3	5E 5A 5B	Ammesso – borsa 5E Admitted – Scholarship 5E	*
642617	56,3	34	90,3	5B	Idoneo Eligible, not admitted	
643748	51	35,5	86,5	5A	Idoneo Eligible, not admitted	*
645824	52,5	32,5	85	5B 5D	Idoneo Eligible, not admitted	
645575	43,5	35	78,5	5B 5E 5D	Idoneo Eligible, not admitted	
645742	42	17,7	59,7	Non idoneo Not eligible		

Curriculum 6 - Ingegneria e tecnologie delle piattaforme satellitari / Engineering and satellite platform technologies

(11 + 1 posti coperti da borsa a tematica vincolata / 11 + 1 positions covered by reserved scholarships)



ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
641958	56	39	95	6D	Ammesso – borsa 6D Admitted – Scholarship 6D	
642772	53	40	93	6G	Ammesso – borsa 6G Admitted – Scholarship 6G	*
644473	52	39	91	6A	Ammesso – borsa 6A Admitted – Scholarship 6A	
641666	54	36	90	6B	Ammesso – borsa 6B Admitted – Scholarship 6B	
645108	51	38	89	6I 6J 6A	Ammesso – borsa 6I Admitted – Scholarship 6I	
645689	50	34	84	6C 6J 6I	Ammesso – borsa 6C Admitted – Scholarship 6C	
644186	53	30	83	6E	Ammesso – borsa 6E Admitted – Scholarship 6E	*
645789	50	29	79	6D 6F	Ammesso borsa 6F Admitted – Scholarship 6F	*
644489	45	32	77	6J 6D (6C non idoneo; 6C not eligible)	Ammesso - borsa 6J Admitted – Scholarship 6J	
641360	49	26	75	6J 6D 6H	Ammesso – borsa 6H Admitted – Scholarship 6H	
645564	49	25	74	6A 6D 6F 6K (6C non idoneo; 6C not eligible)	Ammesso – borsa 6K Admitted – Scholarship 6K	
642751	45	27	72	6L 6F 6J	Ammesso – borsa 6L Admitted – Scholarship 6L	
641752	56	32	88	6B 6D (6C non idoneo; 6C not eligible)	Idoneo Eligible, not admitted	*
645613	41	39	80	6A	Idoneo Eligible, not admitted	
645481	48	28	76	6I	Idoneo Eligible, not admitted	
637841	45	26	71	6D 6F	Idoneo Eligible, not admitted	
643798	43	26	69	6D 6F	Idoneo Eligible, not admitted	
645190	41	26	67	6E	Idoneo Eligible, not admitted	
638034	36	28	64	6A 6D (6C non idoneo; 6C not eligible)	Idoneo Eligible, not admitted	
642936	49	33	82	6J 6D 6F	Escluso dalla graduatoria per ammissione su un altro curriculum/ Excluded from the ranking due to the admission on another Curriculum	
642827	36	20	56	Non idoneo Not eligible		

Curriculum 7 - Economia, giurisprudenza e diplomazia spaziale / Economics, law and space diplomacy



(3 posti coperti da borsa a tematica vincolata + 2 posti NON coperti da borsa di studio / 3 positions covered by reserved scholarships + 2 positions without scholarships)

ID	Titoli / Qualifications /60	Orale / Interview /40	TOTALE/ Total score /100	IDONEITÀ BORSE VINCOLATE /reserved scholarships eligibility	ESITO / OUTCOME	Con riserva / Conditional *
644041	50	39	89	7A, 7C (7B non idoneo; 7B not eligible)	Ammesso – borsa 7A Admitted – Scholarship 7A	
644899	56	32	88	7A	Ammesso – Posto senza borsa Admitted – Position without Scholarship	
643194	47	30	77	7B (7A, 7C non idoneo; 7A, 7C not eligible)	Ammesso – borsa 7B Admitted – Scholarship 7B	*
645281	40	29	69	7C (7A, 7B non idoneo; 7A, 7B not eligible)	Ammesso – borsa 7C Admitted – Scholarship 7C	
641227	40	27	67	-	Ammesso – Posto senza borsa Admitted – Position without Scholarship	
645368	36	29	65	7C	Idoneo Eligible, not admitted	*

NB: I vincitori indicati “con riserva” dovranno conseguire il titolo di studio entro il 31 Ottobre 2023, e far pervenire **entro l'8 novembre 2023** alla Divisione Supporto Corsi di Dottorato e Alta Formazione – Polo Collina (phd.office-st@unitn.it) il **certificato di conseguimento del titolo**.

Successful candidates indicated as “conditional” are expecting to complete their degree **by October 31, 2023**, and they have to submit to the Science & Technology PhD Office (via email to: phd.office-st@unitn.it) **no later than November 8, 2023**, on penalty of exclusion, the **degree certificate**.

Posizioni e borse tematica vincolata

Positions and reserved scholarship

Curriculum	Posizioni e borse <i>Positions and scholarship</i>	Tema (Finanziatore) <i>Topic (Funded by)</i>
1 – Osservazione dell'Universo / Observation of the Universe	10	1A - Study of matter-antimatter gravitational interaction at the ALPHA experiment at CERN (Università degli Studi di Brescia) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1B - Data Analysis & Exploitation for Operating Satellite Missions in Astrophysics, Astroparticle & Cosmology (Scuola Internazionale Superiore di studi Avanzati Trieste) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1C - Multi-wavelength observations of Galactic and extragalactic compact objects and transients (Istituto Universitario di Studi Superiori - IUSS Pavia) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1D - Space-based observations, experiments and modelling for the characterization of the physical properties of cosmic structures,



Curriculum	Posizioni e borse <i>Positions and scholarship</i>	Tema (Finanziatore) <i>Topic (Funded by)</i>
		gravitational wave sources, astro-particles and cosmic backgrounds (Università degli Studi di Milano-Bicocca) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1E - Theoretical and phenomenological research in UHECRs (Gran Sasso Science Institute) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1F - Astrophysics of cosmic sources in the era of great observatories (Istituto Nazionale di Astrofisica INAF) 1G - Modelling and experimental study of astrophysical processes across the electromagnetic spectrum (Università degli studi di Pisa) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1H - Space based observations and experiments for the detection of cosmic sources and the characterization of their physical properties (Università degli studi di Firenze) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1I - Instrument development and calibration for high precision polarimetry of the Cosmic Microwave Background (Università di Milano "Statale") DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 1J - Multi-disciplinary applications of new space technologies: from the detection of cosmic radiation to geomorphology (Università degli studi di Siena) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001
2 - Terra e sistema Sole-Terra / <i>Earth and the Sun-Earth system</i>	7	2A - Study of the effects due to solid-gas mechanical coupling between the lithosphere and the atmosphere in the case of earthquakes of different intensities (Università degli studi di Trento) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 2B - Evolution of the system GEOframe/OMS3/CSIP for the building of a Digital Twin of the Hydrology of river Po (Università degli studi di Trento) DM 118 M4C1- Inv. 4.1 - Dottorati per la Pubblica Amministrazione CUP E66E23000170001 2C - Solar Wind – Magnetosphere – Ionosphere coupling for different solar conditions (Università degli Studi dell'Aquila) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 2D - Space physics and Sun-Earth relations (Università della Calabria) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 2E - Artificial intelligence algorithms for space data analysis in the heliosphere (Agenzia Spaziale Italiana - ASI) 2F - Data analysis, instruments and modeling for the study of Space Weather events: from Gamma to near infrared (Università di Roma "Tor Vergata") DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001 2G - Space Weather studies by detection of high energy particles in the magnetosphere (Università di Roma "Tor Vergata") DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001
3 - Scienze planetarie / <i>Planetary Sciences</i>	11	3A - Machine learning methodologies for the analysis of remote sensing data acquired in planetary and/or Earth observation space missions (Università degli studi di Trento) DM 118 M4C1- Inv. 3.4 - Transizione digitale CUP E66E23000180001



Curriculum	Posizioni e borse <i>Positions and scholarship</i>	Tema (Finanziatore) <i>Topic (Funded by)</i>
		<p>3B - Automatic analysis for planetary sub-surface radar sounder data (Fondazione Bruno Kessler, project ASI JUICE-RIME-E – CUP F83C23000070005)</p> <p>3C - Theoretical and computational methods in Celestial Mechanics, Astrodynamics and Space Sciences (Istituto Nazionale di Alta Matematica - INDAM)</p> <p>3D - The impact of dust in extra-terrestrial habitats: development of space instrumentation and physical characterisation in space, in the laboratory and at similar terrestrial sites (e.g. the Sahara Desert) (Istituto Nazionale di Astrofisica INAF)</p> <p>3E - Subsurface Radar Sounder on the EnVision mission for the analysis of the Venus subsurface (Università degli studi di Trento)</p> <p>3F - Cataloguing space debris: from initial orbit determination to conjunction detection (Università degli studi di Pisa) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>3G - Internal processes and structure of Ganymede in support of the JUICE mission (Università degli Studi "G. d'Annunzio" Chieti - Pescara)</p> <p>3H - Planetary geology, exploration and space operations on Mars and the Moon (Università degli Studi "G. d'Annunzio" Chieti - Pescara) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>3I - Scientific and technological challenge for the Italian curation facility (Università degli studi di Firenze) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>3J - Unveiling Mars through the investigation of meteorites and terrestrial analogues (Agenzia Spaziale Italiana ASI)</p> <p>3K - Looking for life: Martian biogenic minerals (Agenzia Spaziale Italiana ASI)</p>
<p>4 - Astrobiologia, Scienze della Vita e Medicina Spaziale / <i>Astrobiology, Life Sciences and Space Medicine</i></p>	<p>5</p>	<p>4A - Study of the physico-chemical processes of formation and destruction of molecular species from reactions of energetic ions and/or in electrical discharges (Università degli studi di Trento) DM 118 M4C1- Inv. 4.1 - Ricerca PNRR CUP E66E23000110001</p> <p>4B - Investigating the role of the vestibular system in human neurocognitive response to space environment (Università di Torino) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>4C - Modifiability of interoceptive accuracy and sensitivity by mental training (Università degli studi di Pisa) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>4D - Genomic signatures of cyanobacterial endurance under space conditions (Università di Roma "Tor Vergata") DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>4E - Space Biomedicine and BioEngineering for Future Human Space Exploration (Università di Roma "Tor Vergata") DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p>
<p>5 - Sensoristica e strumentazione spaziale / <i>Space sensing and instrumentation</i></p>	<p>6</p>	<p>5A - Modular Antenna Systems for Efficient Long-Range Wireless Power Transmission (Università degli studi di Trento) DM 118 M4C1- Inv. 4.1 - Dottorati per la Pubblica Amministrazione CUP E66E23000170001</p>



Curriculum	Posizioni e borse <i>Positions and scholarship</i>	Tema (Finanziatore) <i>Topic (Funded by)</i>
		<p>5B - Design and prototype characterization of innovative high energy particle detectors for space application (Istituto Nazionale di Fisica Nucleare - INFN)</p> <p>5C - Integrated Photonics for space (Consorzio Nazionale Interuniversitario per le Telecomunicazioni CNIT)</p> <p>5D - Development of technologies for the use of oriented crystals for observations of astrophysical interest (Università degli studi di Ferrara) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>5E - X-ray & gamma-ray spectrometer for two space applications: high energy cosmic transients and planetary surfaces (Università degli studi di Trieste) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>5F - Development of reconfigurable and intelligent RF active components and systems for space applications (RF MICROTECH s.r.l.) DM 117 M4C2 - Inv. 3.3. - Dottorati innovativi CUP E66E23000200008</p>
<p>6 - Ingegneria e tecnologie delle piattaforme satellitari / <i>Engineering and satellite platform technologies</i></p>	<p>11+1</p>	<p>6A - Instruments and mechatronics systems for space applications (Università degli studi di Trento) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6B - Self-antifrosting microstructured surfaces (Fondazione Bruno Kessler FBK)</p> <p>6C - Model-based system-software engineering and formal methods for space systems (Fondazione Bruno Kessler FBK)</p> <p>6D - Technology challenges for “new-space” and “near-space” missions (Università degli studi di Pisa) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6E - Advanced models for the design and characterization of deployable antennas (Politecnico di Torino) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6F - Optical fiber sensor systems for spacecraft propulsion monitoring (Scuola Superiore Sant’Anna Pisa) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6G - Vacuum microwave active devices for observation and detection of object in the space (Università degli studi di Palermo)</p> <p>6H - Active and reconfigurable antenna array system development for SATCOM applications (Università degli studi di Trieste) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6I - Green technologies for a clean and sustainable orbital environment around Earth (Università degli studi di Padova) DM 118 M4C1- Inv. 4.1- Ricerca PNRR CUP E66E23000110001</p> <p>6J - Navigation techniques for space applications (Qascom) DM 117 M4C2 - Inv. 3.3. - Dottorati innovativi CUP E66E23000110001</p> <p>6K - Geometric Deep Learning for rapid prototyping of stealth drones (Università degli studi di Cagliari) M4C2 - Inv. 3.3. - Dottorati innovativi CUP E66E23000110001</p> <p>6L - Radiation hard photonic integrated circuits for space applications (Istituto Nazionale di Fisica Nucleare - INFN) - CUP I53C22001460006 (pubblicata il 03/07/2023)</p>



Curriculum	Posizioni e borse <i>Positions and scholarship</i>	Tema (Finanziatore) <i>Topic (Funded by)</i>
7 - Economics, law and space diplomacy	3+2 posti senza borsa / <i>positions without scholarship</i>	7A - Space economy and governance, regulations and resources for the management of Earth Observation (Istituto Universitario di Studi Superiori IUSS) DM 118 M4C1- Inv. 4.1 - Dottorati per la Pubblica Amministrazione CUP E66E23000170001 7B - Law perspectives for sustainability in space science, technology and economy (Scuola Superiore Sant'Anna Pisa) DM 118 M4C1 – inv 4.1 - Patrimonio Culturale CUP E66E23000190001 7C - Technologies and methodologies for Earth observation and policies of inclusion, competitiveness, and socio-economic and environmental resilience (Università degli Studi di Bari "Aldo Moro")

Trento, 06/09/2023