

Model 1 – PROFILE (Cod.Ud'A 2024/062)

a selective procedure for the recruitment of **no. 1 fixed-term Tenure Track Researcher (RTT)** is hereby announced in compliance with art. 24 of the Italian Law 240/2010 as converted by art. 14 comma 6-decies of the L.D. no. 36/2022 converted with amendments by the L. 79/2022, GSD 02/PHYS-05 ASTROPHYSICS AND COSMOLOGY, EARTH- SPACE- AND CLIMATE PHYSICS (ex S.C. 02/C1) SSD PHYS-05/B PHYSICS OF THE EARTH SYSTEM, PLANETS, SPACE AND CLIMATE (ex FIS/06), activated for the needs of study and research of the Department of Tecnologie Innovative in Medicina e Odontoiatria

- **date of the resolution of the Department** which identified GSD and S.S.D (disciplinary-scientific group and academic discipline) for fixed-term Tenure Track Researcher (RTT) under art. 24 of Law n. 240/2010: cdd (resolution of Department) of 28/06/2024 prot. n. 51058/2024 del 01/07/2024;
- **Date of the resolution of the Department** which identified the profile according to art. 3 paragraph 2 of the University Regulation for the recruitment of fixed-term Tenure Track Researcher (RTT): cdd (resolution of Department) of 18/07/2024 prot. n. 58258/2024 of 23/07/2024 + urgency decree prot. n. 79323/2024 of 15/10/2024; urgency decree prot. n. 88156/2024 del 11/11/2024;
- **Date of the resolution of the Department** which identified weights of elements subject to evaluation: no specific resolution were taken; please refer to the ranges identified in the procedure.
- **Date of the resolution of the Department** which identified minimum eligibility score: urgency decree prot. n. 88156/2024 del 11/11/2024;
- **Minimum eligibility score:** 60 (sixty);
- **Reserved to:**
 - **External staff from University G. D'Annunzio;**
 - or
 - X RTD-A or Research Fellow (reservation applicable until 31/12/2026);**
- **Disciplinary-scientific group:** G.S.D. 02/PHYS-05 ASTROPHYSICS AND COSMOLOGY, EARTH-SPACE- AND CLIMATE PHYSICS (ex S.C. 02/C1);
- **Profile:** S.S.D. PHYS-05/B PHYSICS OF THE EARTH SYSTEM, PLANETS, SPACE AND CLIMATE (ex FIS/06);
- **Specific functions required to the research assistant:**
 - **Teaching duties:** As part of the study courses offered by the University of 'G. d'Annunzio' of Chieti-Pescara, the professor will be engaged in fundamental physics courses and in specific courses of GSD 02/PHYS-05B, which concern the application of physical methodologies in the field of atmospheric physics and climate. In addition, the professor will be engaged in laboratory courses in physics, statistical analysis, and interpretation of climatic and environmental data, as part of bachelor's, master's, and doctoral degree courses. The professor will develop and apply innovative and data-driven teaching methodologies for the instruction of fundamental physics, physics the Earth system, and of the solar system, including their practical applications;
 - **Scientific duties:** The research activity will focus on the topics of atmospheric physics, climate, and environment, with emphasis on experimental studies of the variation of atmospheric greenhouse gases compounds and the development and use of advanced measurement systems, including miniaturized systems for in-situ observations. The research activity will also include studies of the human responses to stress due to changes in atmospheric trace compounds and climatic parameters, using machine learning-based models. Additionally, the professor will participate in multidisciplinary research activities related to the handling of large datasets;
 - **Third mission duties:** as part of the third mission activities of the department and of the University, the professor will contribute with seminars at high schools, local associations and dissemination events. The professor will contribute with the organization of laboratory demonstrations and playful activities concerning atmospheric physics, big data management and augmented reality, as part of University Open Days, European Researchers' Night and similar events;
 - **Clinical care activity:** any clinical/care activity may be carried out following an agreement with the ASL (Local Health Authority) of Lanciano, Vasto, Chieti and/or the ASL (Local Health Authority) of Pescara and/or affiliated structures with the NHS (National Health Service), if there is the relevant availability in terms of vacancy of places in the agreement; _____
 - **Time Commitment:** Full time;
- **Rights and obligations:** as laid down by the provisions in force for the legal status of fixed term research assistants, and by the current Code of Ethics of the University;
- **Duration:** 72 months non-renewable;

- **Salary:** Euro 44.640,92 with application of the 20% increase equivalent to the remuneration due to the permanent researchers confirmed class high of 20%increase / as required by current legislation on the matter, and in particular by the D.P.R. 12/15/2011, n. 232 and subsequent economic adjustments provided by law;
- **Maximum number of publications:** 12 (twelve);
- **Foreign language whose adequate knowledge will be assessed with reference to the multi-lingual profile of the University, namely the academic teaching needs in foreign language degree courses:** English;
- **Mean of assessment of knowledge of the foreign language, or knowledge of Italian for foreign candidates:** interview;
- **Funding:** University Funds of 2024, as in the resolution of the Administration Council of the 30/07/2024 and agreed from the financial Area;
- **The specific research activity will focus on the following project:** "Models and sensors for the study of the impact of the changes of the composition of atmospheric trace gases and of climate on human health";
- **The scientific production objectives:** at least 6 papers on referred international journals;
- **Mean of assessment of scientific qualification:** by assessment of qualifications, curriculum, scientific production and an interview, under and for the purposes of Art. 24 of Law no. 240/2010.