Model 1 – PROFILE

a comparative assessment procedure by qualifications and public discussion for the recruitment of one **Researcher with fixed-term employment is hereby announced pursuant to art. 24 paragraph 3 letter b) of the Italian Law 240/2010 (SENIOR)** with full-time commitment, SSD FIS/07 APPLIED PHYSICS - S.C. 02/D1 - APPLIED PHYSICS, PHYSICS TEACHING AND HISTORY OF PHYSICS; **activated for the needs of study and research of the** Department of NEUROSCIENZE, IMAGING E SCIENZE CLINICHE- Dip.Eccellenza- Cod.Ud'A 2023-112.

- **date of the resolution of the Department** which identified ssd and s.c.(competitive exam sector) for fixed-term full time researcher under art. 24 , paragraph 3, letter . b) of Law no .240/2010: cdd prot.19/04/2023 of the 26/04/2023;
- **Date of the resolution of the Department** which identified the profile according to art. 4 paragraph 4 of the University Regulations : cdd del cdd of 19/04/2023 prot. 29626 of 26/04/2023 + emergency decree prot. no. 42716 of 22/06/2023;
- **Date of the resolution of the Department** with which, on the basis of the resolutions of the Trade Unions, the weights of the elements (scores) subject to evaluation were resolved: No specific resolutions were adopted; please refer to the ranges identified in the announcement;
- **Academic Recruitment Field:** S.C. 02/D1 - APPLIED PHYSICS, PHYSICS TEACHING AND HISTORY OF PHYSICS
- **Profile: S.S.D.** FIS/07 APPLIED PHYSICS
- **Specific functions required to the research assistant**:
  - -**Teaching appointments :** the researcher will have to carry out frontal, supplementary and support teaching activities for students of three-year, master's, master's and doctoral study programs of interest to the University where there are courses in the scientific disciplinary sector FIS/07 or similar;

  - **- Scientific commitments:** development of methods for acquisition of structural and functional magnetic resonance imaging (e.g. development of sequences and protocols) and analysis of signals and images (e.g. machine learning), and application of such methods to study the human brain (e.g. models of microstructure and physiological processes).

- **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**: 36 months non renewable;
- **Salary**: €44,207.67 (forty-four thousand two hundred and seven/67 euros) a.l. lender including the thirteenth month installment, with application of the 20% increase equivalent to the salary due to the class 0 confirmed permanent researcher increased by 20%. The amount indicated above has been adjusted to the increases referred to in the D.P.C.M. 25/07/2022 published in the Official Gazette - General Series - n. 213 of 09/12/2022 "Adjustment of the economic treatment of non-contracted personnel".
- **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**: Plan "Department of Excellence 2023- 27 funds;.
- **The specific research activity will focus on the following project**: development of experimental methods and data analysis methods for the reconstruction of brain activity, also with reference to the estimation of functional connectivity and the study of the modulation of brain activity.
- **The scientific production objectives**: will be aimed, over the three-year period, at the publication of: no. 3 papers in international journals with referee, of high level according to the criteria of the University, and the presentation of research results at national or international conferences.
- **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