



Research sector

Decree n. 128

Office for phd and postdoc

THE RECTOR

ON A PROPOSAL FROM the research Sector – Office for phd and postdoc;

GIVEN the Statute of the Università degli Studi di Cassino e del Lazio Meridionale issued by D.R. n. 661 of July 26, 2018;

GIVEN the Law n. 240 of December 30, 2010 on “Norme in materia di organizzazione delle Università, di personale accademico e reclutamento, nonché delega al Governo per incentivare la qualità e l'efficienza del sistema universitario” and in particular the Art. 22 on “Assegni di ricerca” (Research grants, in the following);

GIVEN the D.R. n. 956 of December 19, 2023, issuing a public selective procedure for the assignment of one Research grant at the Dipartimento di Ingegneria Elettrica e dell'Informazione, of the duration of 12 months, titled “Caratterizzazione e studio di markers clinici e di dati di telemonitoraggio finalizzato allo sviluppo di un sistema di intelligenza artificiale per il supporto alla diagnosi della malattia dei corpi di Levy” - SSD: ING-INF/05 (Sistemi di elaborazione delle informazioni), under the scientific responsibility of Prof. Francesco Fontanella;

NOTED that no applications to participate in the selection have been received;

GIVEN the note of February 2, 2024 from prof. Francesco Fontanella requesting to reopen the public selective procedure;

GIVEN article 14 paragraph 6-septies of D.L. no. 36 of April 30, 2022 converted with amendments by Law no. 79 of June 29, 2022, which introduced the research contract to replace the research grants, provided for by article 22 of Law 240 of 2010;

GIVEN article 14 paragraph 6-quaterdecies of D.L. no. 36 of April 30, 2022 converted with amendments by Law no. 79 of June 29 2022, as amended by article 6 paragraph 4 of the D.L. n. 215 of December 30, 2023, which provided for the possibility of issuing procedures for the awarding of research grants until July 31, 2024;

CONSIDERED it appropriate to accept the aforementioned request;

DECREES

Art. 1

The procedure has reopened, from **12 February 2024** to **12 March 2024**, for the submission of applications to participate in the public selection, issued with D.R. n. 956 of December 19, 2023, for the assignment of one research grant at the Dipartimento di Ingegneria Elettrica e dell'Informazione, of the duration of 12 months, titled “Caratterizzazione e studio di markers clinici e di dati di telemonitoraggio finalizzato allo sviluppo di un sistema di intelligenza artificiale per il supporto alla diagnosi della malattia dei corpi di Levy” - SSD: ING-INF/05 (Sistemi di elaborazione delle informazioni), under the scientific responsibility of Prof. Francesco Fontanella.

Art. 2

The interviews will be held on **March 27, 2024** at **3.00 pm** at the Dipartimento di Ingegneria Elettrica e dell'Informazione, Via G. Di Biasio, Cassino (FR).



Art. 3

For anything not provided for by this decree, remain confirmed the provisions of the D.R. n. 956 of 19.12.2023.

This decree is collected within the internal official repository of the University.

Cassino,

THE RECTOR
(Prof. Marco DELL'ISOLA)



All. A

n. 1 research grant for a period of 12 months

Venue of the research activity: Dipartimento di Ingegneria Elettrica e dell'Informazione

Scientific sector: ING-INF05 (Sistemi di Elaborazione dell'informazione)

Research title: "Study of clinical markers and telemonitoring data for developing an artificial intelligence system to support the diagnosis of Levy body disease"

OBJECTIVES OF RESEARCH AND PROGRAM OF ACTIVITIES

The research objectives focus on the problem of developing an artificial intelligence system to support the diagnosis of Levy body disease based on the analysis of clinical markers and telemonitoring data. In particular, the main research goal is to validate artificial intelligence (AI) tools to detect patients with cognitive impairment due to Lewy Body disease compared to matched Alzheimer's disease and normal elderly persons. To this aim, novel approaches will be developed to exploit and combine several sources of information effectively.

PROGRAM OF THE INTERVIEW

The interview will be focused on the expertise of the applicant in the field of Python programming and machine learning techniques. A good knowledge of the English language is required.

DISCIPLINES TO WHICH TO REFER FOR THE TITLES

The disciplines of the sector ING-INF/05 (Sistemi di Elaborazione dell'informazione)

Tutor:

Prof. Francesco FONTANELLA