

## Tenure-Track Faculty Opening and Call for Applications in the area of Differential Equations and Numerical Analysis with applications

Department of Mathematical Sciences  
School of Applied Sciences and Engineering  
Universidad EAFIT

The following call for applications seeks candidates to fill the available tenure-track faculty position at the Department of Mathematical Sciences in the School of Applied Sciences and Engineering at Universidad EAFIT in Medellín, Colombia.

### 1. HIRING CONDITIONS

#### 1.1. Contract

Initial hiring conditions consist of a one-year contract with the possibility of a one-year renewal before applying for a permanent position within the tenure track system with an indefinite term contract according to the [Faculty Handbook](#) of the University and the review process of the School of Applied Sciences and Engineering.

#### 1.2. Time Dedication

The position is for a full-time faculty.

#### 1.3. Rank

Offers will be made at the Assistant, Associate, and Full Professorship levels, commensurate to the candidates' qualifications defined in the Faculty Handbook.

#### 1.4. Work Location

This position will be filled at the main campus of Universidad EAFIT in Medellín, Colombia. In addition, faculty members are required to be available for occasional traveling to other cities and countries when needed.

#### 1.5. Salary

Universidad EAFIT is a private institution that offers competitive compensation and benefits at the local and regional or national level, including 14-month equivalent pays, two vacation periods, and an employee savings fund, among other prerogatives. According to the Faculty Handbook guidelines, the final offer to selected candidates will be commensurate to academic and professional experiences and qualifications.

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**Note:** Salaries are raised annually according to the budget approved by the Board of Directors. Similarly, faculty salaries are proportional to rank according to the position. Salary increases accompany promotions.

### 1.6 Responsibilities

The selected professional is expected to develop a successful teaching and research program within the School of Applied Sciences and Engineering in Differential Equations and Numerical Analysis with applications. Consequently, the professor is expected to develop teaching, research, and service activities. The professor will be in charge of coordinating the subjects belonging to the area, will support the curricular updating processes involving the area. The professor is expected to have high articulation with other formal, non-formal, and technical programs of the School or University.

## 2. APPLICATION REQUIREMENTS

### 2.1. General

All candidates are expected to have an undergraduate degree in Mathematics, Applied mathematics, Mathematical Engineering, or related fields. Priority will be given to candidates with a Ph.D. degree (or its equivalent in third-cycle university studies) in areas related to the call.

**Note:** Candidates who are in the process of doctoral training or are close to obtaining their doctoral degree will also be considered. Professional and advanced degrees obtained outside Colombia need to be certified and approved by the Ministry of Education. The University grants a grace period for this requirement to be fulfilled.

### 2.2. Position Description

The purpose of this call is to meet the needs of the faculty position in the area of Differential Equations and Numerical Analysis, in order to satisfy strategic interests in teaching and research and to help strengthen and expand our capacity for academic offerings in the programs related to the Department of Mathematical Sciences, namely, the undergraduate program in Mathematical Engineering, Master in Applied Mathematics and Doctorate in Mathematical Engineering, as well as other programs of the School or University.

**Teaching:** The successful candidates for this position will have an interest, ability, and/or experience in teaching undergraduate and graduate courses such as Ordinary and Partial Differential Equations, Numerical Analysis, Real and Functional Analysis (Sobolev Spaces), and Dynamic Systems.

**Research:** The successful candidates for this position will have an interest, experience, or research ability in some of the following areas: Computational paradigms in linear algebra and differential equations, Differential equations and applications, Dynamic systems, Numerical analysis in discrete spaces, Theory of distributions and Sobolev spaces.

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**Administration:** The professor will be in charge of coordinating the subjects belonging to the area, supporting curricular updating processes, and high articulation with other programs or service areas of the School or the University.

**Note:** The University reserves its right to choose the number of appropriate candidates for consideration and the right of hiring or declaring the search unsuccessful.

### 2.3. Foreign Language

Proficiency in English and Spanish is required. Other languages are a plus. Internationals whose native tongue is not Spanish should demonstrate the capacity to acquire proficiency in Spanish within a reasonable time-span.

## 3. REQUIRED DOCUMENTATION

### 3.1. Curriculum Vitae

A complete academic-style CV is required at the time of application; it should include:

- The candidate's academic background.
- Academic and professional experience with functions performed and recognitions.
- A list of research projects where the candidate has participated and in what role (most recent first).
- Complete list of academic or scientific publications and popular articles (full citation and/or DOI) (most recent first).
- URL address of CvLAC, if the candidate is an active researcher in Colombia.

**Note:** In the publications list, if numerous, please indicate which are the most relevant to the position or the one with the most significant impact.

### 3.2. Annexes

Applications are encouraged to include:

#### Mandatory documents:

- A list of at least three references. Letters of support will be requested directly by the Search Committee to the references of select candidates.
- Proposal for teaching, research development, and extension/social projection for the [Department of Mathematical Sciences](#) y the [School of Applied Sciences and Engineering](#) for five (5) years according to the [Strategic Plan Development of the Universidad Eafit](#). Each component (teaching, research, extension) must have a maximum of two (2) pages, which must present its interests and priorities in teaching and research in the future.

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- For the extension and social projection area, indicate the topics of knowledge that could lead to advisory, consulting, or innovation processes; or a proposal for courses, seminars, or workshops related to the area of the professional profile, which could be offered through [Permanent Education](#). The proposal must contain a maximum of two (2) pages.
- Copy of a valid certificate of knowledge of the English language at the B2 level according to the Common European Framework (if the candidate's native language is not English). On the other hand, if the candidate's native language is not Spanish, a basic knowledge of Spanish according to the Common European Framework will ensure a quick adaptation to the local Colombian environment.
- If accepted, the candidate must submit:
  - Labor certificates that allow accrediting the candidate university and/or professional teaching experience concerning the discipline in which the candidate will work, as well as evidence that demonstrates the experience in the formulation, development, participation, and/or implementation of research projects in the area of the professional profile of the call for applications.
  - Copy of degrees awarded by recognized higher education institutions.

**Note:** It must be kept in mind that, for the recognition of degrees in Colombian territory, the Ministry of National Education must validate these. For the application, it is not necessary to have validation. However, it is necessary to have it in case of being selected. The procedures and requirements for this procedure can be consulted on the Ministry of National Education website.

**Note:** If the candidate does not have these documents available, the candidate must demonstrate that it is possible to obtain them prior to engagement if selected.

#### Optional documents:

- Copies of teaching evaluations and comments from courses taught at previous institutions (if available).
- A complete research proposal submitted to a research funding entity. Indicate whether it was funded or not (confidentiality will be respected).

#### **4. IMPORTANT DATES**

Applicants are encouraged to submit their documentation by April 15, 2022. After that, the search committee will start the review of applications, and priority will be given to applications received by the suggested deadline. Nonetheless, the search will remain open until all positions are filled. Applications

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will continue to be received throughout the search and review process. Short-listed candidates must be available for a preliminary interview. Then, depending on availability, a day at the University will be arranged to include a public seminar presentation on their career and latest research developments, interviews with faculty and administrators, and a classroom-style academic audition presentation on a course in Partial Differential Equations and Applications.

Final offers will be made throughout the first half of 2022. The start date will be agreed mutually but is expected to happen during the second half of 2022.

## 5. HOW TO APPLY

Candidates should submit their applications via email to: [escuela-caei@eafit.edu.co](mailto:escuela-caei@eafit.edu.co)

The email subject should read: "DCM Faculty Application – Position DE".

All documents are preferred in PDF format packaged in a single ZIP file attached to the email.

Questions can be directed to the same email using the same subject.

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**Disclaimer:** The call for applications may be declared void. The candidate will assume any travel expenses to participate in the selection process. No funding or time commitment will be allocated to complete their doctoral studies for candidates who are completing their doctorate.

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