

Call for applications
School of Engineering, Science and Technology

The School of Engineering, Science and Technology from Universidad del Rosario is looking multiple full-time tenure track faculty members, preferably with a Ph.D. degree or close to finish the doctorate with background in any of the following areas:

- Artificial Intelligence, Big data, Data Science, Human-Computer Interaction, Software engineering, Smart systems, Cyberphysical Systems, Autonomous Systems, Automatization.
- Applied Math, Cryptography, Cybersecurity.
- Computer networks, Communications Networks, Data Network Infrastructure Design, Network Management and Security, Internet of Things, Wireless Technologies.
- Logistics, Production and optimization, Ergonomics, Operations Management, Industrial Economics, Decision Sciences and Finance, Organizational Transformation, Strategic Planning, Industry 4.0, Service Industry, Industrial Process, Quality Management, Supply Chain Management and Industrial Sustainability.
- Energy markets, Smart grids, Electric vehicles, Renewable energy, Power system analysis, Energy systems optimization, Offshore wind energy, Advanced distribution automation.
- Applied physics, materials science.

If your area of application was not mentioned but you have an interesting trajectory and potential to contribute to the school, please do not hesitate to send your application.

An applicant needs the ability to

1. Teach a broad range of courses required for the undergraduate and the graduate programs, in engineering, math or computer science, both upper and lower division.
2. Be actively engaged in and sustain our research program, which includes authoring original research work in high impact journals and events, writing internal and external grant proposals, and service on national committees and professional organizations.
3. Meaningfully contribute to the University and Program's mission of supporting the diverse student body via rich, culturally relevant, learning experiences and community building.
4. Engage students in research experiences in new and relevant areas of engineering, applied mathematics and computer science.
5. Model research-based, inclusive, pedagogy by using a variety of innovative and proven pedagogical approaches including the use of technology.
6. Assume some administrative responsibilities to help support activities, programs, or services that the program offers to its academic and research community.

The candidates must exhibit excellent oral and written communication skills, a strong international background, an aptitude for teamwork, and a scholarly interest in high quality STEM education and research. Relevant industry experience and indexed publications are a plus. Faculty members at the School of Engineering, Science and Technology are expected to take part in academic and administrative tasks, teach undergraduate and graduate courses, supervise theses, conduct high quality research in collaboration with industry and publish in top journals. We look for highly motivated candidates with a will to generate impact through teaching, research, and projects in

collaboration with industry partners. Certified fluency in English and Spanish is required, equivalent to the B2 level in the European Common Framework.

Our STEM gender gap reduction policy

We acknowledge the gender gap in science, technology, engineering, and mathematics (STEM) fields, characterized by the underrepresentation of women, trans, and non-binary individuals. This disparity is evident in a male-dominated environment and does not reflect the abilities or competencies of these groups. Rather, it is tied to social mechanisms that discourage their participation, leading to an androcentric landscape.

In our effort to address gender inequalities in STEM disciplines, this call for applications places a premium on the professional skills and competencies of applicants, while simultaneously committing to a fair and equitable selection process. We firmly believe these objectives are not mutually exclusive but integral to forming qualified teaching teams that work towards eradicating structural inequalities, not perpetuating them.

About the University (www.urosario.edu.co)

Universidad del Rosario, founded in 1653, is ranked Top 32 by the QS LATAM ranking and with more than 13.000 students, is one of the oldest and most recognized private academic institutions in Colombia. Universidad del Rosario is committed to provide a solid scientific, humanistic, and ethical education to its students by relying on outstanding academic staff and teaching excellence.

About the School of Engineering, Science and Technology (<https://urosario.edu.co/escuela-de-ingenieria-ciencia-y-tecnologia>)

The School of Engineering, Science and Technology is a recent academic unit at Universidad del Rosario which is characterized by its culture of innovation in teaching, research and extension. The school has five different undergraduate programs (Applied mathematics and computer science, Data and market analytics, Industrial Eng., Electronics Eng., and Energy Systems Eng.) additional to seven graduate (Master's programs in: applied mathematics and computer science; engineering, science and technology; renewable energies; strategic information management and digital innovation; business analytics; smart and sustainable cities; materials design and innovation) and one Ph.D. program. This school aims to lead training in the country in engineering, science and technology, emphasizing the solution of local problems with global vision and technologies.

The school is committed to the generation and transfer of knowledge with nationally and internationally recognized professor-researchers. Our graduates will stand out for their excellent academic and human qualities in Colombia and overseas.

Application instructions

Application documents should be submitted in English by email. The following information should be included:

1. Cover letter (1000 words)



2. Curriculum Vitae (max 5 pages) – Please include a list of the 5 most recent or top cited journal publications
3. Second language certification B2 or equivalent. The certifications accepted by the university can be consulted here: <https://urosario.edu.co/vida-academica/idiomas>
4. Research statement (1000 words)
5. Teaching statement (1000 words)
6. Two reference letters with contact information
7. Recent teaching evaluations (if available)

Please submit all documents in a single PDF file to ict@urosario.edu.co. Note that only complete applications will be considered.

The positions are based in Bogotá, Colombia, with the hiring process scheduled for two specific periods in 2024: July and December.

We encourage early submissions as applications will be reviewed on a rolling basis, and the search will remain open until the positions are filled.

Shortlisted candidates will be invited for an interview with the selection committee to discuss their educational and professional journey, alongside their research contributions. Finalists will then be asked to deliver a short lecture to a select group of students and the committee members.

Universidad del Rosario is an Equal Opportunity Employer and it is committed to a policy of equal treatment and opportunity in every aspect of its recruitment and hiring process without regard to age, alienage, caregiver status, childbirth, citizenship status, color, creed, disability, domestic violence victim status, ethnicity, familial status, gender and/or gender identity or expression, marital status, military status, national origin, parental status, partnership status, predisposing genetic characteristics, pregnancy, race, religion, reproductive health decision making, sex, sexual orientation, unemployment status, veteran status, or any other legally protected basis.

Important dates:

- Opening of the call: April 9th
- Closing date for receipt of applications: May 19th
- Comprehensive evaluation of candidates: May and June
- Expected hiring dates are set for July and December of this year.