Title: Full-time professor
Field of Knowledge: Mathematical Optimization and Data Science
Specialty: Discrete Optimization, Integer Programming, Combinatorial Optimization, or Operations Research. Applications to data science and machine learning are highly valued.
Organizational Unit: School of Sciences, Department of Actuarial Science, Physics, and Mathematics
Primary location: Universidad de las Américas Puebla at San Andrés Cholula, Puebla. México.
URL: www.udlap.mx
Type of contract: Indefinite contract
Salary: Commensurate with qualifications and experience.
Fringe benefits: Health insurance, pension and retirement benefits.
Teaching load: 6-8 courses per year, depending on research productivity.

Overview of the functions of the position

The applicant will teach, conduct research, and advise in his/her area(s) of expertise, with particular emphasis on optimization and its applications to data science. Essential responsibilities include:

- To teach between 6 and 8 courses per year, determined by research productivity, at the undergraduate and graduate levels, particularly in optimization and related areas, and to lead instructional activities specified in the approved curriculum and in the faculty bylaws. These activities include lecturing, leading seminars, individual and group tutoring, writing and grading exams, grading papers and reports, and conducting and supervising evaluation activities;
- Coordinating or supporting an academic area related to actuarial or data science;
- To participate in departmental and school activities, including meetings, committees, course and program evaluation, curriculum development, and grant preparation;
- To provide academic support and advising to students;
- To participate in calls for research proposals;
- Conducting and publishing research or developing applied projects related to optimization, operations research, data science, statistics, machine learning, or closely related fields.

Required qualifications

Education

- Ph.D. in Operations Research, Optimization, Applied Mathematics, Computer Science, Statistics, or a closely related field from a recognized institution.
- Demonstrated specialization in discrete optimization, integer programming, combinatorial optimization, or mathematical programming.
- Candidates with a research line connecting optimization and data science, statistical learning, or machine learning are particularly encouraged to apply.

Work Experience

- At least 2 years of research or applied experience in optimization, operations research, integer programming, or closely related areas.
- At least 1 year of university-level teaching experience in optimization, applied mathematics, data science, computer science, or related fields.

- Demonstrated ability to design, manage, and implement research or applied projects involving mathematical modeling and optimization methods.
- Experience collaborating with industry, government, or interdisciplinary academic teams is an asset.

Skills/Competencies

- Solid theoretical foundation in mathematical optimization, particularly in discrete and integer optimization.
- Ability to teach rigorous mathematical courses while connecting theory with computational and real-world applications.
- Research agenda with clear potential for publication and external funding.
- Ability to integrate optimization methods into data science and analytical contexts.
- Strong capacity for independent and collaborative research.
- Interdisciplinary mindset and ability to collaborate across academic units and disciplines.
- Excellent communication skills (spoken and written); ability or willingness to teach in English is desirable.
- Capacity to mentor students in applied and research-oriented projects and foster their professional growth.

Languages

- English and Spanish, or English willing to develop Spanish skills.

Technical skills

- Proficiency in at least one scientific programming language commonly used in optimization and data science (e.g., Python, Julia, MATLAB, or R).
- Experience with mathematical modeling and optimization software (e.g., Gurobi, CPLEX, JuMP, Pyomo, AMPL, or similar tools).
- Familiarity with mixed-integer programming solvers and implementation of exact or heuristic algorithms.
- Ability to translate real-world problems into mathematical optimization models.
- Experience with version control systems (e.g., Git) is desirable.
- Familiarity with machine learning libraries is desirable.

Applications must be sent by email no later than: May 2, 2026.

The University will contact you as soon as the process concludes

Position to start: August, 2026.

Application instructions:
Send cover letter, curriculum vitae (CV) and a link with recent work samples to the Academic Director of the Department of Actuarial Science, Physics, and Mathematics, **Dr. Rubén Blancas Rivera**: ruben.blancas@udlap.mx